FIBERS SITE GROUP

August 10, 2016

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA Response and Remediation Branch U.S Environmental Protection Agency City View Plaza II - Suite 7000 48 RD, 165 Km. 1.2 Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – July 2016

Fibers Public Supply Wells Site

Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM

Fibers Site Group Project Coordinator

EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only

Ms. Evelyn Rivera-Ocasio, Assistant Regional Counsel – Caribbean Programs – via email only

Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)

State Remedial Project Manager, Puerto Rico Environmental Quality Board

Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only

Ms. Enid Diaz, Departmento de Recursos Naturales y Ambientales

Mr. Jorge Morales, PRIDCO - via email only

Mr. Joel Melendez Rodriguez, PRIDCO - via email only

Ms. Ana Palou Balsa, PRIDCO - via email only

Mr. Dan Vineyard, Jackson Walker- via email only

James Kirschner, Arcadis - via email only

RD/RA Monthly Report – July 2016 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 66% of the time during July 2016. The GWETS had five automated shut downs due to power outages and one shut down due to GWETS maintenance. The Fibers Site Group is undertaking a means to mitigate the down time from the power outages, additional details are provided in Section (d) below.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. The GWETS operated at an average flow rate of 222 gallons per minute (gpm) and treated approximately 10.7 million gallons of water in July 2016. To date (since May 1999), approximately 2.98 billion gallons of water have been treated at the Fibers Site.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Groundwater influent and effluent samples were collected on July 5, 2016 and analyzed by Pace Analytical Services, Inc. (Pace). A summary of the July 5, 2016 GWETS Laboratory Analytical Results are provided in Table 2. A summary of influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers from the GWETS is depicted on Figures 2 and 3, respectively.

Arcadis U.S. Inc. (Arcadis) performed a data quality assessment (validation) of the laboratory analytical results reported by Pace. Results are summarized in the Data Review Report #25936R (July 5, 2016 sampling event) and provided as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete Laboratory Analytical Report #2039265 (July 5, 2016 sampling event) is provided as Attachment 2. A copy of the GWETS Sampling and Monitoring Field Form, July 5, 2016, documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 3.

The Fibers Site Group collected influent and effluent water samples from the GWETS on July 11, 2016, at the request of the United States Environmental Protection Agency (USEPA), to screen the water quality against the Total Metals standards established within the *1990 Puerto Rico Water Quality Standards Regulation* (PRWQSR). The GWETS Influent and Effluent Sampling Results, July 11, 2016, are presented in Table D-1 (Attachment D). The Data Review Report (#25959R) and Laboratory Analytical Report (#2039549) for the July 11, 2016 sampling event is provided as Attachment 4. At the request of the USEPA, a short summary report was provided ahead of this monthly report submission on August 3rd to Mr. Adalberto Bosque and Mr. Mel Hauptman.

(c) List of all work plans, plans and other deliverables completed and submitted.

None for this reporting period

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

An Operations, Maintenance, and Monitoring Manual is anticipated to be submitted to the USEPA in September 2016.

A Notice of Completion Report, with stamped engineering as-built construction drawings, is anticipated to be submitted to the USEPA in September 2016.

The first semi-annual groundwater monitoring and sampling event of 2016 was completed at the end of May 2016. Upon receipt of completed data packages from the laboratory, analytical data will undergo validation. Once validated, the data will be submitted with the first semi-annual groundwater monitoring and sampling report for 2016.

Environmental Resource Technologies (ERTEC) completed Phase 2 and Phase 3 subsurface soil investigations at the Baxter-Guayama facility on the Fibers Site in October 2015 and February 2016. Upon completion of the data validation, a summary of results from ERTEC's Phase 2 and Phase 3 subsurface investigations will be included in a subsequent monthly report.

The Fibers Site Group will replace two groundwater flow meters located at extraction wells RW-2 and RW-4. The Fibers Site Group will install additional relays and wiring to the Main Control Panel and program the Supervisory Control and Data Acquisition (SCADA) system to allow automatic (and remote) system restarts subsequent to a power outage or other system shut down to optimize the return to service of the GWETS.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Construction Activities – 100% complete.

System Start-Up – 100% complete.

Start-Up Performance Monitoring – 100% complete.

Long-Term Operation & Maintenance Period – In progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.



Table 1 Summary of Daily Treatment System Operating Records - July 2016 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) ¹	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
7/1/2016	336	360	115	145	74	8.1	Comments
7/1/2016	334	365	115	145	74 75	8.1	
7/3/2016	335	359	115	145	75 75	8.1	
7/4/2016	331	362	115	145	75 75	8.1	
7/5/2016	335	361	115	143	75 75	8.1	
7/6/2016	336	367	114	145	73 79	8.1	
7/7/2016	341	368	114	145	81	8.1	
7/8/2016	340	368	115	145	80	8.1	
7/9/2016	339	366	115	145	80	8.1	
7/10/2016	341	368	115	145	80	8.1	
7/11/2016	216	234	72	94	51	8.0	GWETS shut down due to power outage.
7/12/2016	0	0	0	0	0	7.9	, and the second
7/13/2016	0	0	0	0	0		GWETS maintenance.
7/14/2016	15	15	6	8	4	8.2	GWETS maintenance. GWETS shut down due to power outage.
7/15/2016	0	0	0	0	0	8.5	
7/16/2016	0	0	0	0	0	8.4	
7/17/2016	0	0	0	0	0	8.3	
7/18/2016	100	104	34	44	24	8.3	GWETS restarted; adjusted flow rate of recovery wells pumps.
7/19/2016	333	359	110	145	80	8.2	
7/20/2016	336	361	110	145	80	8.2	
7/21/2016	336	359	110	145	80	8.2	
7/22/2016	334	361	109	145	80	8.2	
7/23/2016	57	61	21	26	14	8.1	GWETS shut down due to power outage.
7/24/2016	96	106	34	44	24	8.1	
7/25/2016	337	361	110	145	80	8.3	
7/26/2016	305	331	101	133	74	8.3	GWETS shut down due to power outage.
7/27/2016	0	0	0	0	0	8.0	
7/28/2016	134	152	47	63	34	8.1	GWETS maintenance.
7/29/2016	336	362	110	145	80	8.3	
7/30/2016	335	362	109	145	80	8.3	
7/31/2016	214	231	71	93	51	8.2	GWETS shut down due to power outage.
Monthly Average	222	239	75	96	52	8.0	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

¹ = Recorded from instrument FIT-101.

² = Recorded from instrument FIT-301.

³ = Recorded from instrument RW2 FIT.

⁴ = Recorded from instrument RW4 FIT.

⁵ = Recorded from instrument RW5 FIT.

⁶ = Recorded from instrument pHIT-201A.

Table 2 Summary of Treatment System Laboratory Analytical Results July 2016 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on July 5, 2016 are presented below. The system average effluent flow rate at the time the samples were collected was 362 gallons per minute (gpm). Sample results indicate that the treatment system is operating in compliance with operating parameters pursuant to the Consent Decree.

		VOC (µ	g/L)	
Compound	EFF-20160705	EFFDUP-20160705	INF-20160705	TB-20160705
Tetrachloroethene	ND	ND	9.3	ND
Enflurane	ND	ND	1.8	ND
Haloether 229	ND	ND	30.5	ND
Haloether 406	ND	ND	1.3	ND
Haloether 508	ND	ND	60.2	ND
Haloether 528	ND	ND	1.9	ND
Halomar	ND	ND	1.3	ND
Isoflurane	ND	ND	118	ND
Total Haloethers	ND	ND	215	ND
Acetone	23.8	16.9	9.2	ND
Other VOC	ND	ND	ND	ND

Notes:

VOC = volatile organic compounds.

μg/L = micrograms per liter.

EFF = effluent sample.

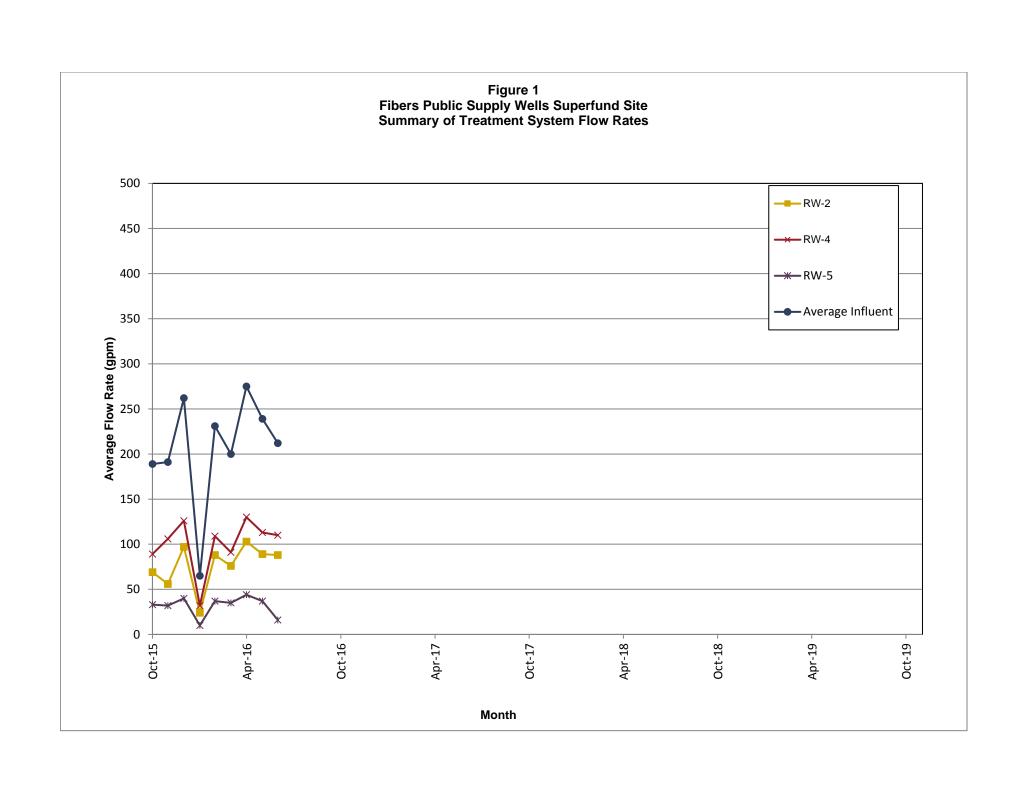
EFFDUP = effluent duplicate sample.

INF = influent sample.

TB = trip blank.

ND = not detected at or above laboratory reporting limit.





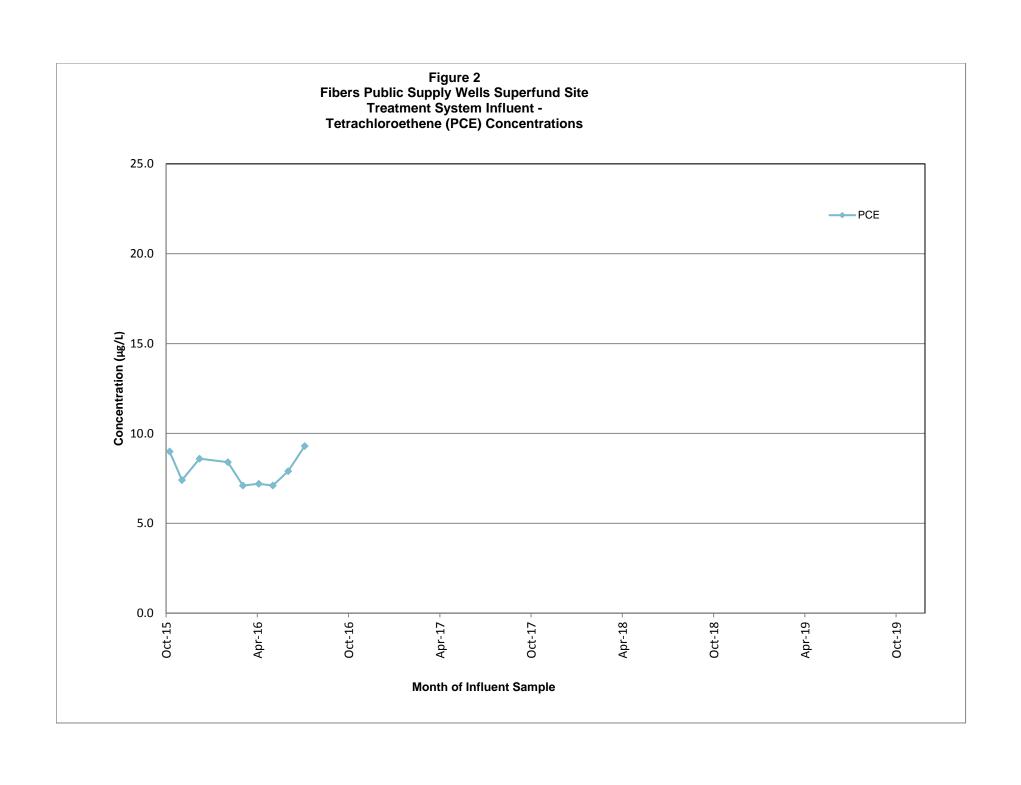
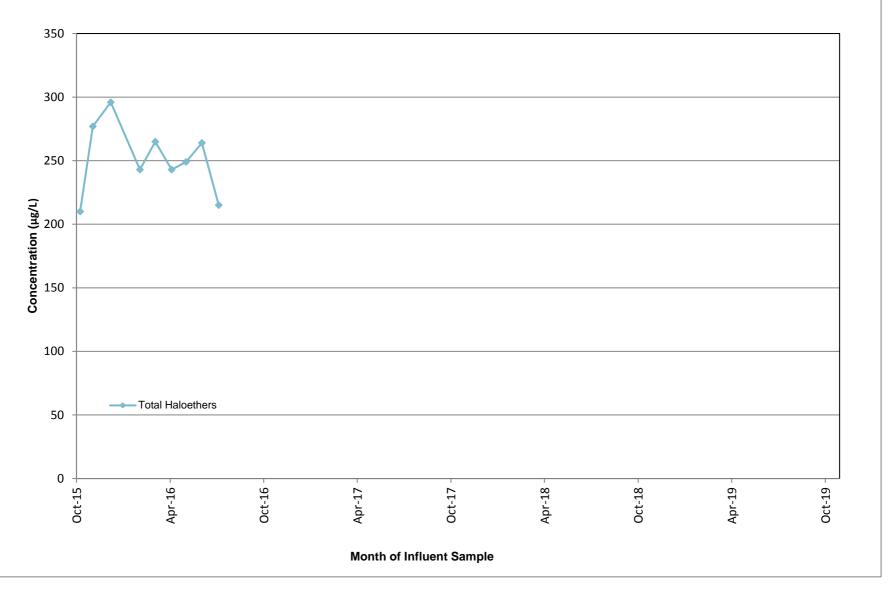


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent Total Haloethers Concentrations



Attachment 1 Data Review Report #25936R



Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2039265 Analyses Performed By: Pace Analytical Services, Inc. New Orleans, Louisiana

Report: #25936R Review Level: Tier II

Project: CO001911.0003.1605A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2039265 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

			Sample	Parent		A	nalys	is	
Sample ID	Lab ID	Matrix	Collection Date	Sample	voc	svoc	TPH	MET	MISC
TB-20160705	2039265001	Water	07/05/2016		Х				
INF-20160705	2039265002	Water	07/05/2016		Х				
EFF-20160705	2039265003	Water	07/05/2016		Х				
EFF-20160705 DUP	2039265004	Water	07/05/2016	EFF-20160705	Х				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20160705.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. QC serves to increase confidence in data but any value potentially contains error.	Strict

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
377-840 8200	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
	Acrolein		
	o-Xylene	<10%	<10%
	Styrene	<10%	<10%
EFF-20160705	Vinyl chloride		
EFF-20100703	cis-1,3-Dichloropropene	AC	<ll but="">10%</ll>
	Ethylbenzene		
	m&p-Xylene	<ll but="">10%</ll>	<ll but="">10%</ll>
	Toluene		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
> the apper control limit (OL)	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
< the lower control limit (EE) but > 10 %	Detect	J
< 10%	Non-detect	R
< 10%	Detect	J
Parent sample concentration > four times the MS/MSD	Detect	No Action
spiking solution concentration.	Non-detect	No Action

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound			
EFF-20160705	Carbon disulfide			
EFF-20160703	Haloether 229			

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
. 111	Non-detect	UJ
> UL	Detect	J

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20160705/ EFF-20160705 DUP	Acetone	23.8	16.9	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETR	Y (GC/MS)			
Tier II Validation					
Holding times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks					
A. Method blanks		Х		Х	
B. Equipment/Field blanks					Х
C. Trip blanks		Х		Х	
Laboratory Control Sample (LCS) Accuracy (%R)		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R					Х
LCS/LCSD Precision (RPD)					Х
Matrix Spike (MS) %R		Х	Х		
Matrix Spike Duplicate (MSD) %R		Х	Х		
MS/MSD Precision RPD		Х	Х		
Field/Laboratory Duplicate Sample RPD		Х		Х	
Surrogate Spike %R		Х		Х	
Dilution Factor		Х		Х	
Moisture Content					Х

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

DATE: July 20, 2016

PEER REVIEW: Dennis Capria

DATE: July 25, 2016

CHAIN OF CUSTODY/ ANNOTATED SAMPLE ANALYSIS DATA SHEETS



FIBERS PUBLIC SUPPLY WELLS Project:

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: TB-20160705	Lab ID: 203	39265001	Collected: 0	7/05/16	6 00:00	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Me	thod: EPA 5	030B/8260						
Acetone	ND	ug/L		4.0	1		07/07/16 16:19	9 67-64-1	
Acrolein	ND	ug/L		8.0	1		07/07/16 16:19	9 107-02-8	
Acrylonitrile	ND	ug/L		4.0	1		07/07/16 16:19	9 107-13-1	
Benzene	ND	ug/L		1.0	1.1		07/07/16 16:19		
Bromodichloromethane	ND	ug/L		1.0	1		07/07/16 16:19	75-27-4	
Bromoform	ND	ug/L		1.0	1		07/07/16 16:19		
Bromomethane	ND	ug/L		1.0	1		07/07/16 16:19		
2-Butanone (MEK)	ND	ug/L		2.0	1		07/07/16 16:19		
Carbon disulfide	ND	ug/L		1.0	1		07/07/16 16:19		
Carbon tetrachloride	ND	ug/L		1.0	1		07/07/16 16:19		
Chlorobenzene	ND	ug/L		1.0	1		07/07/16 16:19		
Chloroethane	ND	ug/L		1.0	1		07/07/16 16:19		
Chloroform	ND	ug/L		1.0	1		07/07/16 16:19		
Chloromethane	ND	ug/L		1.0	1		07/07/16 16:19		
Dibromochloromethane	ND	ug/L		1.0	1		07/07/16 16:19		
Dibromomethane	ND	ug/L		1.0	1		07/07/16 16:19		
,1-Dichloroethane	ND	ug/L		1.0	1		07/07/16 16:19		
.2-Dichloroethane	ND	ug/L		1.0	1		07/07/16 16:19		
,1-Dichloroethene	ND	ug/L		1.0	1		07/07/16 16:19		
is-1,2-Dichloroethene	ND	ug/L		1.0	1		07/07/16 16:19		
rans-1,2-Dichloroethene	ND	ug/L		1.0	1		07/07/16 16:19		
,2-Dichloropropane	ND	ug/L		1.0	1		07/07/16 16:19		
is-1,3-Dichloropropene	ND	ug/L		1.0	1		07/07/16 16:19		
rans-1,3-Dichloropropene	ND	ug/L		1.0	1		07/07/16 16:19		
influrane	ND	ug/L		1.0	1		07/07/16 16:19		
thylbenzene	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 229	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 406	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 421	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 427	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 428	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 508	ND	ug/L		1.0	1		07/07/16 16:19		
laloether 528	ND	ug/L		1.0	1		07/07/16 16:19		
lalomar	ND	ug/L		1.0	1		07/07/16 16:19		
-Hexanone	ND	ug/L		2.0	1		07/07/16 16:19		
soflurane	ND	ug/L		1.0	1		07/07/16 16:19		
Methoxyflurane	ND	ug/L		1.0	1		07/07/16 16:19		
Methylene Chloride	ND	ug/L		5.0	1		07/07/16 16:19		
-Methyl-2-pentanone (MIBK)	ND	ug/L ug/L		2.0	1		07/07/16 16:19		
tvrene	ND	ug/L ug/L		1.0	1		07/07/16 16:19		
1,2,2-Tetrachloroethane	ND	ug/L ug/L		1.0	1		07/07/16 16:19		
etrachloroethene	ND	ug/L		1.0	1		07/07/16 16:19		
oluene	ND	ug/L ug/L		1.0	1		07/07/16 16:19		
otal Haloether	ND			1.0	1		07/07/16 16:19		
,1,1-Trichloroethane	ND	ug/L ug/L		1.0	1		07/07/16 16:19		
,1,2-Trichloroethane	ND			1.0	1		07/07/16 16:19		
richloroethene		ug/L							
nchoroetnene	ND	ug/L		1.0	1		07/07/16 16:19	79-01-6	



FIBERS PUBLIC SUPPLY WELLS Project:

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Parameters	Sample: TB-20160705	Lab ID:	2039265001	Collected: 07/05/	16 00:00	Received:	07/06/16 09:00	Matrix: Water	
Trichlorofluoromethane	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
12,3-Trichloropropane	8260 MSV HALOETHERS	Analytical	Method: EPA 5	030B/8260					
1,2,3-Trichloropropane	Trichlorofluoromethane	N	D ug/L	1.0	1		07/07/16 16:1	9 75-69-4	
1,1,2-Trichlorotrifluoroethane	1,2,3-Trichloropropane	N		1.0	1		07/07/16 16:19	9 96-18-4	
Viny Lohoide	46 - 100 - 240 - 160 - 1	N		1.0	1		07/07/16 16:19	9 76-13-1	
mSp-Nylene ND ug/L 2.0 1 07/07/16 16:19 178601-23-1 o/70/716 16:19 97867-23-1 o/70/716 16:19 97867-6 8 Surrogates Toluene-68 (S) 100 %. 79-119 1 07/07/16 16:19 2037-26-5 4-6 romofuluoromethane (S) 98 %. 68-124 1 07/07/16 16:19 460-00-4 50-00-6 668-124 1 07/07/16 16:19 460-00-4 72-126 1 07/07/16 16:19 460-00-4 70-07/07/16 16:19 1868-53-7 7 860-00-4 72-126 1 07/07/16 16:19 1868-53-7 7 860-00-4 72-126 1 07/07/16 16:19 1868-53-7 7 860-00-4 7 860-00-4 07/07/16 16:19 1868-53-7 7 860-00-4 9 2 08/08-00-4 8 860-00-4 9 8 6 8-124 1 07/07/16 16:19 1868-53-7 8 6 8-124 1 07/07/16 16:39 8 6 8 2 0 1 07/07/16 16:39 7 8		N		1.0	1		07/07/16 16:19	9 75-01-4	
o-Xylene ND ug/L 1.0 1 07/07/16 16:19 95-47-6 Surrogates Toluene-d8 (S) 100 %. 79-119 1 07/07/16 16:19 2037-26-5 4-Bromofluorobenzene (S) 98 %. 68-124 1 07/07/16 16:19 1868-53-7 NZ-126 1 07/07/16 16:19 1868-53-7 NZ-126 1 07/07/16 16:19 1868-53-7 NZ-126 N	Will for the transfer was the			2.0	1				
Surrogates 100 % 79-119 1 07/07/16 16:19 2037-26-5 4-Bromofluorobenzene (S) 98 % 68-124 1 07/07/16 16:19 460-00-4 Dibromofluoromethane (S) 92 % 72-126 1 07/07/16 16:19 1868-53-7									
Toluene_dB (S)		1,000	-9	.,,			4.14.14.14		
ABromofluorobenzene (S) 98 % 68-124 1 07/07/16 16:19 460-00-4		10	0 %.	79-119	1		07/07/16 16:19	9 2037-26-5	
Sample: INF-20160705				68-124					
Parameters Results Units Report Limit DF Prepared Analyzed CAS No.									
Parameters Results Units Report Limit DF Prepared Analyzed CAS No.	Sample: INF-20160705	Lah ID:	2039265002	Collected: 07/05/:	16 11:50	Received	07/06/16 09:00	Matrix: Water	
Acetone									
Acetone	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Acrolein ND ug/L 8.0 1 07/07/16 16:36 107-02-8 Acrylonitrile ND ug/L 4.0 1 07/07/16 16:36 107-13-1 Benzene ND ug/L 1.0 1 07/07/16 16:36 71-43-2 Bromodichloromethane ND ug/L 1.0 1 07/07/16 16:36 75-27-4 Bromoform ND ug/L 1.0 1 07/07/16 16:36 75-27-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-27-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Carbon tetrachloride ND ug/L 1.0 1 07/07/16 16:36 75-15-0 Carbon tetrachloride ND ug/L 1.0 1 07/07/16 16:36 </td <td>8260 MSV HALOETHERS</td> <td>Analytical</td> <td>Method: EPA 50</td> <td>030B/8260</td> <td></td> <td></td> <td></td> <td></td> <td></td>	8260 MSV HALOETHERS	Analytical	Method: EPA 50	030B/8260					
Acrylonitrile ND ug/L 4.0 1 07/07/16 16:36 107-13-1 Benzene ND ug/L 1.0 1 07/07/16 16:36 71-43-2 Bernzene ND ug/L 1.0 1 07/07/16 16:36 75-27-4 Bromodichloromethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromodichloromethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-35-3 Carbon disulfide ND ug/L 1.0 1 07/07/16 16:36 75-15-0 Carbon disulfide ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 188-90-7 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 188-90-7 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 188-90-7 Chlorobentane ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-88-1 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-88-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-35-4 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-60-5 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 100-61-01-5 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 100-61-01-5 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 100-61-01-5 1,1-Dichloroethene ND ug/L 1	Acetone	9.	2 ug/L	4.0	1		07/07/16 16:36	67-64-1	
Acrylonitrile ND ug/L 4.0 1 07/07/16 16:36 107-13-1 Benzene ND ug/L 1.0 1 07/07/16 16:36 71-43-2 Bernomolichloromethane ND ug/L 1.0 1 07/07/16 16:36 75-27-4 Bromodichloromethane ND ug/L 1.0 1 07/07/16 16:36 75-27-4 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 1.0 1 07/07/16 16:36 75-25-2 Bromomethane ND ug/L 2.0 1 07/07/16 16:36 74-83-9 2-Butanone (MEK) ND ug/L 2.0 1 07/07/16 16:36 78-93-3 Carbon disulfide ND ug/L 1.0 1 07/07/16 16:36 75-15-0 Carbon disulfide ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-60-2 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 1,2-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 1,2-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 1,3-Dichloropropene ND ug/L 1.0 1 07/07/1	Acrolein	NI	D ug/L	8.0	1		07/07/16 16:36	3 107-02-8	
Benzene ND ug/L 1.0 1 07/07/16 16:36 71-43-2	Acrylonitrile	NI		4.0	1		07/07/16 16:36	3 107-13-1	
Bromodichloromethane ND	Benzene	NI		1.0	1		07/07/16 16:36	71-43-2	
Bromoform ND ug/L 1.0 1 07/07/16 16:36 75-25-2	Bromodichloromethane			1.0	1		07/07/16 16:36	5 75-27-4	
Bromomethane	Bromoform				1				
2-Butanone (MEK)					1				
Carbon disulfide ND ug/L 1.0 1 07/07/16 16:36 75-15-0 Carbon tetrachloride ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 108-90-7 Chlorotethane ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 76-03 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-35-4 cis-1,2-Dichloroethane ND ug/L 1.0 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Carbon tetrachloride ND ug/L 1.0 1 07/07/16 16:36 56-23-5 Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 108-90-7 Chloroethane ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 75-30-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 72-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Chlorobenzene ND ug/L 1.0 1 07/07/16 16:36 108-90-7 Chloroethane ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-59-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-59-2 trans-1,2-Dichloroethane ND ug/L 1.0 1									
Chloroethane ND ug/L 1.0 1 07/07/16 16:36 75-00-3 Chloroform ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 72-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-35-4 ctans-1,2-Dichloroethane ND ug/L 1.0 1									
Chloroform ND ug/L 1.0 1 07/07/16 16:36 67-66-3 Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-59-2 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-59-2 tcs-1,2-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-59-2 tcs-1,2-Dichloroptopane ND ug/L 1.0 1 07/07/16 16:36 156-60-5 trans-1,3-Dichloropropene ND ug/L <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Chloromethane ND ug/L 1.0 1 07/07/16 16:36 74-87-3 Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 124-48-1 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-59-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-69-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-69-2 trans-1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-69-2 trans-1,2-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 78-87-5 cis-1,3-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 trans-1,3-Dichloropropane ND									
Dibromochloromethane ND ug/L 1.0 1 07/07/16 16:36 124-48-1 Dibromomethane ND ug/L 1.0 1 07/07/16 16:36 74-95-3 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-59-2 cis-1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-59-2 trans-1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 156-60-5 trans-1,3-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 trans-1,3-Dichloropropane ND									
Dibromomethane									
1,1-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 75-34-3 1,2-Dichloroethane ND ug/L 1.0 1 07/07/16 16:36 107-06-2 1,1-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 75-35-4 cis-1,2-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-59-2 trans-1,2-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-60-5 1,2-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 78-87-5 cis-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 trans-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-02-6 Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3									
1,2-Dichloroethane									
1,1-Dichloroethene									
ND									
trans-1,2-Dichloroethene ND ug/L 1.0 1 07/07/16 16:36 156-60-5 1,2-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 78-87-5 cis-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 rans-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-02-6 Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
1,2-Dichloropropane ND ug/L 1.0 1 07/07/16 16:36 78-87-5 cis-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 trans-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-02-6 Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
cis-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-01-5 trans-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-02-6 Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
trans-1,3-Dichloropropene ND ug/L 1.0 1 07/07/16 16:36 10061-02-6 Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
Enflurane 1.8 ug/L 1.0 1 07/07/16 16:36 13838-16-9 Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
Ethylbenzene ND ug/L 1.0 1 07/07/16 16:36 100-41-4 Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
Haloether 229 30.5 ug/L 1.0 1 07/07/16 16:36 Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
Haloether 406 1.3 ug/L 1.0 1 07/07/16 16:36									
1010 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10) 10 2 11 TX (1) TX								
Haloether 421 ND ug/L 1.0 1 07/07/16 16:36 Haloether 427 ND ug/L 1.0 1 07/07/16 16:36									



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: INF-20160705	Lab ID:	2039265002	Collected: 07/05/	16 11:50	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical	Method: EPA 5	030B/8260					
Haloether 428	NI	0 ug/L	1.0	1		07/07/16 16:3	6	
Haloether 508	60.		1.0	1		07/07/16 16:3	6	
Haloether 528	1.		1.0	1		07/07/16 16:3		
Halomar	1.		1.0	1		07/07/16 16:3		
2-Hexanone	NI		2.0	1		07/07/16 16:3		
Isoflurane	11		1.0	1		07/07/16 16:3		
Methoxyflurane	NI		1.0	1		07/07/16 16:3		
Methylene Chloride	N		5.0	1		07/07/16 16:3		
4-Methyl-2-pentanone (MIBK)	NI		2.0	1		07/07/16 16:3		
Styrene	N		1.0	1		07/07/16 16:3		
1,1,2,2-Tetrachloroethane	NI		1.0	1		07/07/16 16:3		
Tetrachloroethene	9.		1.0	1		07/07/16 16:3		
				1				
Toluene	N		1.0			07/07/16 16:3		
Total Haloether	21		1.0	1		07/07/16 16:3		
1,1,1-Trichloroethane	N		1.0	1		07/07/16 16:3	열하다면 이 프린 경험	
1,1,2-Trichloroethane	N		1.0	1		07/07/16 16:3		
Trichloroethene	N		1.0	1		07/07/16 16:3		
Trichlorofluoromethane	N		1.0	1		07/07/16 16:3		
1,2,3-Trichloropropane	N) ug/L	1.0	1		07/07/16 16:3	6 96-18-4	
1,1,2-Trichlorotrifluoroethane	NI) ug/L	1.0	1		07/07/16 16:3	6 76-13-1	
Vinyl chloride	N	ug/L	1.0	1		07/07/16 16:3	6 75-01-4	
m&p-Xylene	N	ug/L	2.0	1		07/07/16 16:3	6 179601-23-	-1
o-Xylene	N	ug/L	1.0	1		07/07/16 16:30	6 95-47-6	
Surrogates								
Toluene-d8 (S)	99	9 %.	79-119	1		07/07/16 16:30	6 2037-26-5	
4-Bromofluorobenzene (S)	9	5 %.	68-124	1		07/07/16 16:30	6 460-00-4	
Dibromofluoromethane (S)	9	1 %.	72-126	1		07/07/16 16:30	6 1868-53-7	
Sample: EFF-20160705	Lab ID:	2039265003	Collected: 07/05/	16 12:30	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical	Method: EPA 50	030B/8260			-		
Acetone	23.0	g ug/L	4.0	1		07/07/16 16:0	1 67-64-1	
Acrolein	NE NE		8.0	1		07/07/16 16:0		-M1 7
Acrylonitrile	NE		4.0	1		07/07/16 16:0		IVII
						Tarris and the same of the same of	2. 0.4.0 (1.0.0)	
Benzene Bromodichloromethane	NE NE		1.0	1		07/07/16 16:0° 07/07/16 16:0°		
Bromoform	NE		1.0	1		07/07/16 16:0		
Bromomethane	NE		1.0	1		07/07/16 16:0:		
2-Butanone (MEK)	NE		2.0	1		07/07/16 16:0		Se 1
Carbon disulfide	NE		1.0	1		07/07/16 16:0		_R1 U
Carbon tetrachloride	NE		1.0	1		07/07/16 16:01		
Chlorobenzene	NE		1.0	1		07/07/16 16:01		
	NIC	ug/L	1.0	1		07/07/16 16:0	1 75-00-3	
Chloroethane Chloroform	NE NE		1.0	1		07/07/16 16:0		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Sample: EFF-20160705	Lab ID:	2039265003	Collected:	07/05/1	6 12:30	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical	Method: EPA 5	030B/8260						
Chloromethane	N	D ug/L		1.0	1		07/07/16 16:0	1 74-87-3	
Dibromochloromethane	N	D ug/L		1.0	1		07/07/16 16:0	1 124-48-1	
Dibromomethane	N			1.0	1		07/07/16 16:0	1 74-95-3	
1,1-Dichloroethane	N	D ug/L		1.0	1		07/07/16 16:0	1 75-34-3	
1,2-Dichloroethane	N	D ug/L		1.0	1		07/07/16 16:0	1 107-06-2	
1,1-Dichloroethene	N	D ug/L		1.0	1		07/07/16 16:0	1 75-35-4	
cis-1,2-Dichloroethene	N	D ug/L		1.0	1		07/07/16 16:0	1 156-59-2	
trans-1,2-Dichloroethene	N			1.0	1		07/07/16 16:0	1 156-60-5	
1,2-Dichloropropane	N			1.0	1		07/07/16 16:0	1 78-87-5	
cis-1,3-Dichloropropene	N			1.0	1		07/07/16 16:0	1 10061-01-5	MT U
trans-1,3-Dichloropropene	NI			1.0	1		07/07/16 16:0		3
Enflurane	N			1.0	1		07/07/16 16:0		
Ethylbenzene	N			1.0	1		07/07/16 16:0		MT UJ
Haloether 229	NI	9		1.0	1		07/07/16 16:0		At US
Haloether 406	NI			1.0	1		07/07/16 16:0		
Haloether 421	NI			1.0	1		07/07/16 16:0		
Haloether 427	NI			1.0	1		07/07/16 16:0		
Haloether 428	NI			1.0	1		07/07/16 16:0		
Haloether 508	NI			1.0	1		07/07/16 16:0		
Haloether 528	NI			1.0	1		07/07/16 16:0		
Halomar	NI			1.0	1		07/07/16 16:0		
2-Hexanone	N			2.0	1		07/07/16 16:0		
Isoflurane	N			1.0	1		07/07/16 16:0		
Methoxyflurane	NI	- 3		1.0	1		07/07/16 16:0		
Methylene Chloride	NI			5.0	1		07/07/16 16:01		
4-Methyl-2-pentanone (MIBK)	N			2.0	1		07/07/16 16:01		
Styrene	NI.			1.0	1		07/07/16 16:0		M1 72
1,1,2,2-Tetrachloroethane	NI	-0-		1.0	1		07/07/16 16:01		1011
Tetrachloroethene	NI			1.0	1		07/07/16 16:01		
Toluene	N			1.0	1		07/07/16 16:01		ATT (1)
Total Haloether	NI			1.0	1		07/07/16 16:01		TVII 2
1,1,1-Trichloroethane	N	-		1.0	1		07/07/16 16:01		
1,1,2-Trichloroethane	N			1.0	1		07/07/16 16:01		
Trichloroethene	N	-		1.0	1		07/07/16 16:01		
Trichlorofluoromethane	N			1.0	1				
				1010	1		07/07/16 16:01		
1,2,3-Trichloropropane	N			1.0			07/07/16 16:01		
1,1,2-Trichlorotrifluoroethane	NI			1.0	1		07/07/16 16:01		MI DI D
Vinyl chloride	M						07/07/16 16:01		M1,R1
m&p-Xylene	N			2.0	1			179601-23-1	~ ~
o-Xylene	N) ug/L		1.0			07/07/16 16:01	95-4/-6	M1- R
Surrogates	9	8 0/	7/	0.110	1		07/07/46 46:04	2027 26 5	
Toluene-d8 (S)				9-119	1		07/07/16 16:01		
4-Bromofluorobenzene (S)	9			8-124	1		07/07/16 16:01	and the same of th	
Dibromofluoromethane (S)	9	1 %.	72	2-126	1		07/07/16 16:01	1868-53-7	



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: EFF-20160705 DUP	Lab ID: 203	9265004	Collected: 07/05/1	6 12:30	Received: 0	7/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Met	nod: EPA 50	030B/8260					
Acetone	16.9	ug/L	4.0	1		07/07/16 16:54	67-64-1	
Acrolein	ND	ug/L	8.0	1		07/07/16 16:54	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		07/07/16 16:54	107-13-1	
Benzene	ND	ug/L	1.0	1		07/07/16 16:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/07/16 16:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/07/16 16:54	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/07/16 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		07/07/16 16:54	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/07/16 16:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/07/16 16:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/07/16 16:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/07/16 16:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/07/16 16:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/07/16 16:54	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/07/16 16:54	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		07/07/16 16:54	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:54		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:54		
,2-Dichloropropane	ND	ug/L	1.0	1		07/07/16 16:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/07/16 16:54	10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/07/16 16:54		
Enflurane	ND	ug/L	1.0	1		07/07/16 16:54		
Ethylbenzene	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 229	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 406	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 421	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 427	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 428	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 508	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 528	ND	ug/L	1.0	1		07/07/16 16:54		
Halomar	ND	ug/L	1.0	1		07/07/16 16:54		
2-Hexanone	ND	ug/L	2.0	1		07/07/16 16:54		
soflurane	ND	ug/L	1.0	1		07/07/16 16:54		
Methoxyflurane	ND	ug/L	1.0	1		07/07/16 16:54		
Methylene Chloride	ND	ug/L	5.0	1		07/07/16 16:54		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		07/07/16 16:54		
Styrene	ND	ug/L	1.0	1		07/07/16 16:54		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
Tetrachloroethene	ND	ug/L	1.0	1		07/07/16 16:54		
Toluene	ND	ug/L	1.0	1		07/07/16 16:54		
Total Haloether	ND	ug/L	1.0	1		07/07/16 16:54		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
Trichloroethene	ND	ug/L	1.0	1		07/07/16 16:54		



Project:

FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Sample: EFF-20160705 DUP	Lab ID: 203	9265004	Collected: 07/05/1	6 12:30	Received: (07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Met	hod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		07/07/16 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/07/16 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/07/16 16:54	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		07/07/16 16:54	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		07/07/16 16:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/07/16 16:54	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%.	79-119	1		07/07/16 16:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	68-124	1		07/07/16 16:54	460-00-4	
Dibromofluoromethane (S)	89	%.	72-126	1		07/07/16 16:54	1868-53-7	

MO#: 2039265 PaceAn

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

OTHER CE PC 14 DRINKING WATER 1947871 NPDES [GROUND WATER [REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) Site Location STATE T UST telerone:

Bos Project

Workin, Stock @ pace bebrown

Bos Prolle #: Arcordis Accounts Involce Information: Company Name: Section C ace Quote Phoenix AZ 45000 Exercise Order No.: (D po 1911, D002)
Francis Consider Housed Onered Spirits Project Name: Fiber Subject Supply Wells Hoxfard Project Number: (0001911.0003 COPY TO: CASSANDIA Required Project Information Report To: Dayid 410 Nacts 44th st. 1000 Company: Arcad's W.S. INC Section A Required Client Information:

S &	Section D Matrix Codes Required Client Information, MATRIX / CODE	1	(9MC)		COLLECT	СТЕО				Pre	Preservatives	Sevi		N/A								4		
	SAMPLE ID	Seboc bilev ees)	G=GRAB C=C	COMPOSITE	P	COMPOSITE								Sudfoolet							(N/Y) e	A	8	7
# M∃TI	Sample IDs MUST BE UNIQUE Other	PATRIX CODE		DATE	TIME	DATE	TIME	TA GAMPLE TEMP # OF CONTAINE	Unpreserved	HNO ³	NgOH HCI	Na ₂ S ₂ O ₃ Nethanol	Other	eeT elevianA↓ 사고에 네오누							Residual Chlorin	o co	Project	Paco Project No. / Jah ID
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3	EFF -20W0705	MATICA	S	Ī	-	2-16	1230	4			W	9		×										
4	EFFDUP-2016 0305	MA	25		-0-	9-05-141230-F	230	W			w			×										
10	EFFMS- 2016 0705	WIG	S		13-	5.06	1230	W			W			×										
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Attachment 2 Laboratory Analytical Report #2039265





July 18, 2016

David Howard ARCADIS 410 North 44th St. Suite 1000 Phoenix, AZ 85008

RE: Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Justin L. Stock

Justin Stock

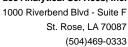
justin.stock@pacelabs.com

Project Manager

Enclosures

cc: Janisse Diaz, Arcadis Cassandra McCloud Elvin Varela, ARCADIS







CERTIFICATIONS

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:

11277CA

Florida Department of Health (NELAC): E87595 Illinois Environmental Protection Agency: 0025721 Kansas Department of Health and Environment (NELAC):

F-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC): 68-04202

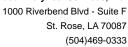
Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

Commonwealth of Virginia (TNI): 480246



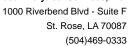


SAMPLE SUMMARY

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2039265001	TB-20160705	Water	07/05/16 00:00	07/06/16 09:00
2039265002	INF-20160705	Water	07/05/16 11:50	07/06/16 09:00
2039265003	EFF-20160705	Water	07/05/16 12:30	07/06/16 09:00
2039265004	EFF-20160705 DUP	Water	07/05/16 12:30	07/06/16 09:00





SAMPLE ANALYTE COUNT

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2039265001	TB-20160705	EPA 5030B/8260	MLS	56	PASI-N
2039265002	INF-20160705	EPA 5030B/8260	MLS	56	PASI-N
2039265003	EFF-20160705	EPA 5030B/8260	MLS	56	PASI-N
2039265004	EFF-20160705 DUP	EPA 5030B/8260	MLS	56	PASI-N



1000 Riverbend Blvd - Suite F St. Rose, LA 70087 (504)469-0333

PROJECT NARRATIVE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: July 18, 2016

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 58330

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2039265003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 240948)
 - Acrolein
 - Ethylbenzene
 - Styrene
 - Toluene
 - Vinyl chloride
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 240949)
 - Acrolein
 - Ethylbenzene
 - Styrene
 - Toluene

(504)469-0333



PROJECT NARRATIVE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: July 18, 2016

QC Batch: 58330

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2039265003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Vinyl chloride
- cis-1,3-Dichloropropene
- m&p-Xylene
- o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 240949)
 - Carbon disulfide
 - Haloether 229
 - Vinyl chloride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: TB-20160705	Lab ID: 203	9265001	Collected: 07/05/1	6 00:00	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Met	hod: EPA 50	030B/8260					
Acetone	ND	ug/L	4.0	1		07/07/16 16:1	9 67-64-1	
Acrolein	ND	ug/L	8.0	1		07/07/16 16:1	9 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		07/07/16 16:1	9 107-13-1	
Benzene	ND	ug/L	1.0	1		07/07/16 16:1	9 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/07/16 16:1	9 75-27-4	
Bromoform	ND	ug/L	1.0	1		07/07/16 16:1	9 75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/07/16 16:1	9 74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		07/07/16 16:1	9 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/07/16 16:1	9 75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/07/16 16:1	9 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/07/16 16:1		
Chloroethane	ND	ug/L	1.0	1		07/07/16 16:1		
Chloroform	ND	ug/L	1.0	1		07/07/16 16:1		
Chloromethane	ND	ug/L	1.0	1		07/07/16 16:1		
Dibromochloromethane	ND	ug/L	1.0	1		07/07/16 16:1		
Dibromomethane	ND	ug/L	1.0	1		07/07/16 16:1		
1,1-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:1		
,2-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:1		
,1-Dichloroethene	ND ND	ug/L	1.0	1		07/07/16 16:1		
	ND	_	1.0	1		07/07/16 16:1		
cis-1,2-Dichloroethene		ug/L		1		07/07/16 16:1		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1				
I,2-Dichloropropane	ND	ug/L	1.0	1		07/07/16 16:1		
cis-1,3-Dichloropropene	ND	ug/L	1.0				9 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	1.0	1			9 10061-02-6	
Enflurane	ND	ug/L	1.0	1			9 13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 229	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 406	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 421	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 427	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 428	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 508	ND	ug/L	1.0	1		07/07/16 16:1		
Haloether 528	ND	ug/L	1.0	1		07/07/16 16:1		
Halomar	ND	ug/L	1.0	1		07/07/16 16:1		
2-Hexanone	ND	ug/L	2.0	1		07/07/16 16:1	9 591-78-6	
soflurane	ND	ug/L	1.0	1		07/07/16 16:1	9	
Methoxyflurane	ND	ug/L	1.0	1		07/07/16 16:1	9 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		07/07/16 16:1	9 75-09-2	
l-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		07/07/16 16:1	9 108-10-1	
Styrene	ND	ug/L	1.0	1		07/07/16 16:1	9 100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/07/16 16:1	9 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/07/16 16:1	9 127-18-4	
Toluene	ND	ug/L	1.0	1		07/07/16 16:1	9 108-88-3	
Total Haloether	ND	ug/L	1.0	1		07/07/16 16:1	9	
,1,1-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:1	9 71-55-6	
I,1,2-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:1		
Frichloroethene	ND	ug/L	1.0	1		07/07/16 16:1		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: TB-20160705	Lab ID: 203	9265001	Collected: 07/05/1	16 00:00	Received: 0	7/06/16 09:00 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Met	nod: EPA 5	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		07/07/16 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/07/16 16:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/07/16 16:19	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		07/07/16 16:19	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		07/07/16 16:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/07/16 16:19	95-47-6	
Surrogates		. 3	-					
Toluene-d8 (S)	100	%.	79-119	1		07/07/16 16:19	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	68-124	1		07/07/16 16:19	460-00-4	
Dibromofluoromethane (S)	92	%.	72-126	1		07/07/16 16:19	1868-53-7	
Sample: INF-20160705	Lab ID: 203	9265002	Collected: 07/05/1	16 11:50	Received: 0	07/06/16 09:00 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
					Tropared			
3260 MSV HALOETHERS	Analytical Met	100: EPA 5	U3UB/826U					
Acetone	9.2	ug/L	4.0	1		07/07/16 16:36	67-64-1	
Acrolein	ND	ug/L	8.0	1		07/07/16 16:36	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		07/07/16 16:36	107-13-1	
Benzene	ND	ug/L	1.0	1		07/07/16 16:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/07/16 16:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/07/16 16:36	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/07/16 16:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		07/07/16 16:36	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/07/16 16:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/07/16 16:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/07/16 16:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/07/16 16:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/07/16 16:36		
Chloromethane	ND	ug/L	1.0	1		07/07/16 16:36		
Dibromochloromethane	ND	ug/L	1.0	1		07/07/16 16:36	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		07/07/16 16:36		
1,1-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:36		
1,2-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:36		
1,1-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:36		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:36		
rans-1,2-Dichloroethene	ND ND	ug/L	1.0	1		07/07/16 16:36		
1,2-Dichloropropane	ND ND	ug/L	1.0	1		07/07/16 16:36		
cis-1,3-Dichloropropene	ND ND	ug/L ug/L	1.0	1		07/07/16 16:36		
rans-1,3-Dichloropropene	ND ND	ug/L ug/L	1.0	1		07/07/16 16:36		
Enflurane	1.8	ug/L ug/L	1.0	1		07/07/16 16:36		
Ethylbenzene	ND		1.0	1		07/07/16 16:36		
•		ug/L				07/07/16 16:36		
Haloether 229	30.5	ug/L	1.0	1		07/07/16 16:36		
Haloether 406	1.3	ug/L	1.0	1				
Haloether 421	ND	ug/L	1.0	1		07/07/16 16:36		
Haloether 427	ND	ug/L	1.0	1		07/07/16 16:36		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Lab ID: 203	Lab ID: 2039265002		6 11:50	Received: 07/06/16 09:00 M		Matrix: Water	
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Meth	nod: EPA 50	030B/8260					
ND	ug/L	1.0	1		07/07/16 16:36		
60.2	ug/L	1.0	1		07/07/16 16:36		
1.9	ug/L	1.0	1		07/07/16 16:36		
1.3	ug/L	1.0	1		07/07/16 16:36		
ND	ug/L	2.0	1		07/07/16 16:36	591-78-6	
118	ug/L	1.0	1		07/07/16 16:36		
ND	ug/L	1.0	1		07/07/16 16:36	76-38-0	
ND	ug/L	5.0	1		07/07/16 16:36	75-09-2	
ND	ug/L	2.0	1		07/07/16 16:36	108-10-1	
ND	ug/L	1.0	1		07/07/16 16:36	100-42-5	
ND	-	1.0	1		07/07/16 16:36	79-34-5	
9.3	-	1.0	1				
ND	-	1.0	1				
	-						
	-					71-55-6	
	_						
	-						
	-						
	-						
	-						
	-						
	-						
ND	ug/L	1.0	'		07/07/10 10.30	93-47-0	
99	%	79-119	1		07/07/16 16:36	2037-26-5	
91	%.	72-126	1				
Lab ID: 203	9265003	Collected: 07/05/1	6 12:30	Received: 0	7/06/16 09:00 M	Matrix: Water	
							0
— Results —	Units	Report Limit		Prepared	Analyzed		Qua
Analytical Meth	nod: EPA 50	030B/8260					
Analytical Meth 23.8	nod: EPA 50 ug/L	030B/8260 4.0	1		07/07/16 16:01	67-64-1	
•			1 1		07/07/16 16:01 07/07/16 16:01		M1
23.8	ug/L	4.0				107-02-8	M1
23.8 ND	ug/L ug/L	4.0 8.0	1		07/07/16 16:01	107-02-8 107-13-1	M1
23.8 ND ND	ug/L ug/L ug/L	4.0 8.0 4.0	1 1		07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2	M1
23.8 ND ND ND	ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0	1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4	M1
23.8 ND ND ND ND	ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0	1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2	M1
23.8 ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0	1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9	M1
23.8 ND ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3	
23.8 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0	M1
23.8 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0 1.0	1 1 1 1 1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5	
23.8 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1		07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01 07/07/16 16:01	107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7	
	Results Analytical Method ND 60.2 1.9 1.3 ND 118 ND ND ND ND ND ND ND ND ND N	Results	Results	Results	Results Units Report Limit DF Prepared	Results	Results

REPORT OF LABORATORY ANALYSIS

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Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: EFF-20160705	Lab ID: 203	9265003	Collected: 07/05/1	6 12:30	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Chloromethane	ND	ug/L	1.0	1		07/07/16 16:0	1 74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/07/16 16:0	1 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		07/07/16 16:0	1 74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:0	1 75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:0	1 107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:0	1 75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:0	1 156-59-2	
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:0	1 156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/07/16 16:0	1 78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/07/16 16:0	1 10061-01-5	M1
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/07/16 16:0	1 10061-02-6	
Enflurane	ND	ug/L	1.0	1		07/07/16 16:0	1 13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		07/07/16 16:0	1 100-41-4	M1
Haloether 229	ND	ug/L	1.0	1		07/07/16 16:0	1	R1
Haloether 406	ND	ug/L	1.0	1		07/07/16 16:0	1	
Haloether 421	ND	ug/L	1.0	1		07/07/16 16:0	1	
laloether 427	ND	ug/L	1.0	1		07/07/16 16:0	1	
laloether 428	ND	ug/L	1.0	1		07/07/16 16:0	1	
laloether 508	ND	ug/L	1.0	1		07/07/16 16:0	1	
Haloether 528	ND	ug/L	1.0	1		07/07/16 16:0	1	
Halomar	ND	ug/L	1.0	1		07/07/16 16:0	1	
2-Hexanone	ND	ug/L	2.0	1		07/07/16 16:0	1 591-78-6	
soflurane	ND	ug/L	1.0	1		07/07/16 16:0	1	
Methoxyflurane	ND	ug/L	1.0	1		07/07/16 16:0	1 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		07/07/16 16:0	1 75-09-2	
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		07/07/16 16:0		
Styrene	ND	ug/L	1.0	1		07/07/16 16:0	1 100-42-5	M1
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/07/16 16:0	1 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/07/16 16:0	1 127-18-4	
- Toluene	ND	ug/L	1.0	1		07/07/16 16:0	1 108-88-3	M1
otal Haloether	ND	ug/L	1.0	1		07/07/16 16:0		
,1,1-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:0		
,1,2-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:0		
Frichloroethene	ND	ug/L	1.0	1		07/07/16 16:0	1 79-01-6	
richlorofluoromethane	ND	ug/L	1.0	1		07/07/16 16:0		
,2,3-Trichloropropane	ND	ug/L	1.0	1		07/07/16 16:0		
,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/07/16 16:0		
/inyl chloride	ND	ug/L	1.0	1		07/07/16 16:0		M1,R1
n&p-Xylene	ND	ug/L	2.0	1			1 179601-23-1	
-Xylene	ND	ug/L	1.0	1		07/07/16 16:0		M1
Surrogates	110	~g/ =	1.0	•		37707710 10.0		
oluene-d8 (S)	96	%.	79-119	1		07/07/16 16:0	1 2037-26-5	
-Bromofluorobenzene (S)	96	%.	68-124	1		07/07/16 16:0		
Dibromofluoromethane (S)	91	%.	72-126	1		07/07/16 16:0		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: EFF-20160705 DUP	Lab ID: 203	9265004	Collected: 07/05/1	6 12:30	Received:	07/06/16 09:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Met	nod: EPA 50	030B/8260					
Acetone	16.9	ug/L	4.0	1		07/07/16 16:54	4 67-64-1	
Acrolein	ND	ug/L	8.0	1		07/07/16 16:54	4 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		07/07/16 16:54	4 107-13-1	
Benzene	ND	ug/L	1.0	1		07/07/16 16:54	4 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/07/16 16:54	4 75-27-4	
Bromoform	ND	ug/L	1.0	1		07/07/16 16:54	4 75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/07/16 16:54	4 74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		07/07/16 16:54	4 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/07/16 16:54	4 75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/07/16 16:54	4 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/07/16 16:54		
Chloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
Chloroform	ND	ug/L	1.0	1		07/07/16 16:54		
Chloromethane	ND	ug/L	1.0	1		07/07/16 16:54		
Dibromochloromethane	ND	ug/L	1.0	1		07/07/16 16:5		
Dibromomethane	ND	ug/L	1.0	1		07/07/16 16:54		
1.1-Dichloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
,2-Dichloroethane	ND ND	ug/L	1.0	1		07/07/16 16:5		
,1-Dichloroethene	ND ND	ug/L ug/L	1.0	1		07/07/16 16:5		
sis-1,2-Dichloroethene	ND ND	_	1.0	1		07/07/16 16:54		
•		ug/L		1				
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/07/16 16:5		
I,2-Dichloropropane	ND	ug/L	1.0	1		07/07/16 16:5		
cis-1,3-Dichloropropene	ND	ug/L	1.0			07/07/16 16:5		
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/07/16 16:54		
Enflurane	ND	ug/L	1.0	1		07/07/16 16:54		
Ethylbenzene	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 229	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 406	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 421	ND	ug/L	1.0	1		07/07/16 16:54		
Haloether 427	ND	ug/L	1.0	1		07/07/16 16:5		
Haloether 428	ND	ug/L	1.0	1		07/07/16 16:5		
Haloether 508	ND	ug/L	1.0	1		07/07/16 16:5		
Haloether 528	ND	ug/L	1.0	1		07/07/16 16:5		
Halomar	ND	ug/L	1.0	1		07/07/16 16:5	4	
2-Hexanone	ND	ug/L	2.0	1		07/07/16 16:54	4 591-78-6	
soflurane	ND	ug/L	1.0	1		07/07/16 16:54	4	
Methoxyflurane	ND	ug/L	1.0	1		07/07/16 16:54	4 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		07/07/16 16:54	4 75-09-2	
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		07/07/16 16:54	4 108-10-1	
Styrene	ND	ug/L	1.0	1		07/07/16 16:54	4 100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/07/16 16:54	4 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/07/16 16:54	4 127-18-4	
Toluene	ND	ug/L	1.0	1		07/07/16 16:54	4 108-88-3	
Total Haloether	ND	ug/L	1.0	1		07/07/16 16:54	4	
,1,1-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
I,1,2-Trichloroethane	ND	ug/L	1.0	1		07/07/16 16:54		
Frichloroethene	ND	ug/L	1.0	1		07/07/16 16:54		

St. Rose, LA 70087 (504)469-0333



ANALYTICAL RESULTS

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Sample: EFF-20160705 DUP	Lab ID: 2039	9265004	Collected: 07/05/1	6 12:30	Received: 07	7/06/16 09:00	Matrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		07/07/16 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/07/16 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/07/16 16:54	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		07/07/16 16:54	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		07/07/16 16:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/07/16 16:54	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%.	79-119	1		07/07/16 16:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	68-124	1		07/07/16 16:54	460-00-4	
Dibromofluoromethane (S)	89	%.	72-126	1		07/07/16 16:54	1868-53-7	



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

QC Batch: 58330 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 2039265001, 2039265002, 2039265003, 2039265004

METHOD BLANK: 240946 Matrix: Water
Associated Lab Samples: 2039265001, 2039265002, 2039265003, 2039265004

			Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/07/16 14:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/07/16 14:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/07/16 14:33	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/07/16 14:33	
1,1-Dichloroethane	ug/L	ND	1.0	07/07/16 14:33	
1,1-Dichloroethene	ug/L	ND	1.0	07/07/16 14:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/07/16 14:33	
1,2-Dichloroethane	ug/L	ND	1.0	07/07/16 14:33	
1,2-Dichloropropane	ug/L	ND	1.0	07/07/16 14:33	
2-Butanone (MEK)	ug/L	ND	2.0	07/07/16 14:33	
2-Hexanone	ug/L	ND	2.0	07/07/16 14:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	07/07/16 14:33	
Acetone	ug/L	ND	4.0	07/07/16 14:33	
Acrolein	ug/L	ND	8.0	07/07/16 14:33	
Acrylonitrile	ug/L	ND	4.0	07/07/16 14:33	
Benzene	ug/L	ND	1.0	07/07/16 14:33	
Bromodichloromethane	ug/L	ND	1.0	07/07/16 14:33	
Bromoform	ug/L	ND	1.0	07/07/16 14:33	
Bromomethane	ug/L	ND	1.0	07/07/16 14:33	
Carbon disulfide	ug/L	ND	1.0	07/07/16 14:33	
Carbon tetrachloride	ug/L	ND	1.0	07/07/16 14:33	
Chlorobenzene	ug/L	ND	1.0	07/07/16 14:33	
Chloroethane	ug/L	ND	1.0	07/07/16 14:33	
Chloroform	ug/L	ND	1.0	07/07/16 14:33	
Chloromethane	ug/L	ND	1.0	07/07/16 14:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/07/16 14:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/07/16 14:33	
Dibromochloromethane	ug/L	ND	1.0	07/07/16 14:33	
Dibromomethane	ug/L	ND	1.0	07/07/16 14:33	
Enflurane	ug/L	ND	1.0	07/07/16 14:33	
Ethylbenzene	ug/L	ND	1.0	07/07/16 14:33	
Haloether 229	ug/L	ND	1.0	07/07/16 14:33	
Haloether 406	ug/L	ND	1.0	07/07/16 14:33	
Haloether 421	ug/L	ND	1.0	07/07/16 14:33	
Haloether 427	ug/L	ND	1.0	07/07/16 14:33	
Haloether 428	ug/L	ND	1.0	07/07/16 14:33	
Haloether 508	ug/L	ND	1.0	07/07/16 14:33	
Haloether 528	ug/L	ND	1.0	07/07/16 14:33	
Halomar	ug/L	ND	1.0	07/07/16 14:33	
Isoflurane	ug/L	ND	1.0	07/07/16 14:33	
m&p-Xylene	ug/L	ND	2.0	07/07/16 14:33	

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Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

METHOD BLANK: 240946 Matrix: Water
Associated Lab Samples: 2039265001, 2039265002, 2039265003, 2039265004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L		1.0	07/07/16 14:33	
Methylene Chloride	ug/L	ND	5.0	07/07/16 14:33	
o-Xylene	ug/L	ND	1.0	07/07/16 14:33	
Styrene	ug/L	ND	1.0	07/07/16 14:33	
Tetrachloroethene	ug/L	ND	1.0	07/07/16 14:33	
Toluene	ug/L	ND	1.0	07/07/16 14:33	
Total Haloether	ug/L	ND	1.0	07/07/16 14:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/07/16 14:33	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/07/16 14:33	
Trichloroethene	ug/L	ND	1.0	07/07/16 14:33	
Trichlorofluoromethane	ug/L	ND	1.0	07/07/16 14:33	
Vinyl chloride	ug/L	ND	1.0	07/07/16 14:33	
4-Bromofluorobenzene (S)	%.	97	68-124	07/07/16 14:33	
Dibromofluoromethane (S)	%.	89	72-126	07/07/16 14:33	
Toluene-d8 (S)	%.	99	79-119	07/07/16 14:33	

METHOD BLANK: 241748 Matrix: Water

Associated Lab Samples: 2039265001, 2039265002, 2039265003, 2039265004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/11/16 11:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/11/16 11:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/11/16 11:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/11/16 11:11	
1,1-Dichloroethane	ug/L	ND	1.0	07/11/16 11:11	
1,1-Dichloroethene	ug/L	ND	1.0	07/11/16 11:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/11/16 11:11	
1,2-Dichloroethane	ug/L	ND	1.0	07/11/16 11:11	
1,2-Dichloropropane	ug/L	ND	1.0	07/11/16 11:11	
2-Butanone (MEK)	ug/L	ND	2.0	07/11/16 11:11	
2-Hexanone	ug/L	ND	2.0	07/11/16 11:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	07/11/16 11:11	
Acetone	ug/L	ND	4.0	07/11/16 11:11	
Acrolein	ug/L	ND	8.0	07/11/16 11:11	
Acrylonitrile	ug/L	ND	4.0	07/11/16 11:11	
Benzene	ug/L	ND	1.0	07/11/16 11:11	
Bromodichloromethane	ug/L	ND	1.0	07/11/16 11:11	
Bromoform	ug/L	ND	1.0	07/11/16 11:11	
Bromomethane	ug/L	ND	1.0	07/11/16 11:11	
Carbon disulfide	ug/L	ND	1.0	07/11/16 11:11	
Carbon tetrachloride	ug/L	ND	1.0	07/11/16 11:11	
Chlorobenzene	ug/L	ND	1.0	07/11/16 11:11	
Chloroethane	ug/L	ND	1.0	07/11/16 11:11	

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Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

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METHOD BLANK: 241748 Matrix: Water Associated Lab Samples: 2039265001, 2039265002, 2039265003, 2039265004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	07/11/16 11:11	
Chloromethane	ug/L	ND	1.0	07/11/16 11:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/11/16 11:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/11/16 11:11	
Dibromochloromethane	ug/L	ND	1.0	07/11/16 11:11	
Dibromomethane	ug/L	ND	1.0	07/11/16 11:11	
Enflurane	ug/L	ND	1.0	07/11/16 11:11	
Ethylbenzene	ug/L	ND	1.0	07/11/16 11:11	
Haloether 229	ug/L	ND	1.0	07/11/16 11:11	
Haloether 406	ug/L	ND	1.0	07/11/16 11:11	
Haloether 421	ug/L	ND	1.0	07/11/16 11:11	
Haloether 427	ug/L	ND	1.0	07/11/16 11:11	
Haloether 428	ug/L	ND	1.0	07/11/16 11:11	
Haloether 508	ug/L	ND	1.0	07/11/16 11:11	
Haloether 528	ug/L	ND	1.0	07/11/16 11:11	
Halomar	ug/L	ND	1.0	07/11/16 11:11	
Isoflurane	ug/L	ND	1.0	07/11/16 11:11	
m&p-Xylene	ug/L	ND	2.0	07/11/16 11:11	
Methoxyflurane	ug/L	ND	1.0	07/11/16 11:11	
Methylene Chloride	ug/L	ND	5.0	07/11/16 11:11	
o-Xylene	ug/L	ND	1.0	07/11/16 11:11	
Styrene	ug/L	ND	1.0	07/11/16 11:11	
Tetrachloroethene	ug/L	ND	1.0	07/11/16 11:11	
Toluene	ug/L	ND	1.0	07/11/16 11:11	
Total Haloether	ug/L	ND	1.0	07/11/16 11:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/11/16 11:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/11/16 11:11	
Trichloroethene	ug/L	ND	1.0	07/11/16 11:11	
Trichlorofluoromethane	ug/L	ND	1.0	07/11/16 11:11	
Vinyl chloride	ug/L	ND	1.0	07/11/16 11:11	
4-Bromofluorobenzene (S)	%.	98	68-124	07/11/16 11:11	
Dibromofluoromethane (S)	%.	91	72-126	07/11/16 11:11	
Toluene-d8 (S)	%.	99	79-119	07/11/16 11:11	

LABORATORY CONTROL SAMPLE:	240947					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.7	99	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	15-179	
1,1,2-Trichloroethane	ug/L	50	51.9	104	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	37.1	74	38-121	
1,1-Dichloroethane	ug/L	50	44.4	89	63-129	
1,1-Dichloroethene	ug/L	50	39.2	78	51-139	
1,2,3-Trichloropropane	ug/L	50	50.3	101	13-187	

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Project: FIBERS PUBLIC SUPPLY WELLS

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LABORATORY CONTROL SAMPLE	: 240947	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifier
1,2-Dichloroethane	ug/L		48.5	97	57-148	
1,2-Dichloropropane	ug/L	50	47.6	95	66-128	
2-Butanone (MEK)	ug/L	50	51.3	103	32-183	
2-Hexanone	ug/L	50	55.2	110	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.8	108	26-171	
Acetone	ug/L	50	52.3	105	22-165	
Acrolein	ug/L	100	104	104	10-131	
Acrylonitrile	ug/L	50	51.3	103	18-149	
Benzene	ug/L	50	49.3	99	62-131	
Bromodichloromethane	ug/L	50	49.4	99	69-132	
Bromoform	ug/L	50	48.3	97	35-166	
Bromomethane	ug/L	50 50	47.9	96	34-158	
Carbon disulfide	ug/L	50	36.2	72	31-128	
Carbon tetrachloride	ug/L ug/L	50 50	48.2	72 96	54-144	
Chlorobenzene	ug/L ug/L	50 50	48.2 48.6	96 97	70-127	
Chloroethane	ug/L ug/L	50 50	46.6 44.2	97 88	17-127 17-195	
Chloroform	_	50 50	44.2	92	73-134	
Chloromethane	ug/L				17-153	
	ug/L	50 50	49.9 47.7	100	68-129	
sis-1,2-Dichloroethene	ug/L	50 50		95	72-138	
is-1,3-Dichloropropene	ug/L	50 50	49.1	98		
Dibromochloromethane	ug/L	50 50	46.3	93	49-146	
Dibromomethane	ug/L	50	51.9	104	56-145	
Enflurane	ug/L	50	47.9	96	56-135	
Ethylbenzene	ug/L	50	48.0	96	66-126	
Haloether 229	ug/L	50	37.6	75	62-123	
Haloether 406	ug/L	50	47.9	96	62-134	
Haloether 421	ug/L	50	51.9	104	70-128	
Haloether 427	ug/L	50	52.9	106	69-153	
Haloether 428	ug/L	50	49.7	99	70-134	
laloether 508	ug/L	50	49.0	98	52-139	
Haloether 528	ug/L	50	55.1	110	48-157	
lalomar	ug/L	50	48.8	98	62-128	
soflurane	ug/L	50	49.2	98	61-132	
n&p-Xylene	ug/L	100	95.3	95	65-129	
Methoxyflurane	ug/L	50	51.2	102	72-124	
Methylene Chloride	ug/L	50	47.8	96	46-168	
-Xylene	ug/L	50	48.2	96	65-124	
Styrene	ug/L	50	48.8	98	72-133	
etrachloroethene	ug/L	50	46.3	93	46-157	
oluene	ug/L	50	51.0	102	69-126	
otal Haloether	ug/L		541			
rans-1,2-Dichloroethene	ug/L	50	44.4	89	60-129	
rans-1,3-Dichloropropene	ug/L	50	52.1	104	59-149	
richloroethene	ug/L	50	48.0	96	67-132	
richlorofluoromethane	ug/L	50	50.4	101	39-171	
/inyl chloride	ug/L	50	41.2	82	27-149	
I-Bromofluorobenzene (S)	%.			100	68-124	

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LABORATORY CONTROL SAMPLE: 240947

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Dibromofluoromethane (S)	%.			98	72-126	
Toluene-d8 (S)	%.			101	79-119	

LABORATORY CONTROL SAMPLE	: 241749					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		54.2	108	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	43.7	87	15-179	
1,1,2-Trichloroethane	ug/L	50	50.1	100	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	41.2	82	38-121	
1,1-Dichloroethane	ug/L	50	44.6	89	63-129	
1,1-Dichloroethene	ug/L	50	43.5	87	51-139	
,2,3-Trichloropropane	ug/L	50	47.4	95	13-187	
,2-Dichloroethane	ug/L	50	48.7	97	57-148	
,2-Dichloropropane	ug/L	50	45.5	91	66-128	
2-Butanone (MEK)	ug/L	50	49.0	98	32-183	
2-Hexanone	ug/L	50	54.3	109	36-170	
1-Methyl-2-pentanone (MIBK)	ug/L	50	51.9	104	26-171	
Acetone	ug/L	50	50.4	101	22-165	
Acrolein	ug/L	100	121	121	10-131	
Acrylonitrile	ug/L	50	49.1	98	18-149	
Benzene	ug/L	50	48.4	97	62-131	
Bromodichloromethane	ug/L	50	49.1	98	69-132	
Bromoform	ug/L	50	50.0	100	35-166	
Bromomethane	ug/L	50	52.8	106	34-158	
Carbon disulfide	ug/L	50	39.5	79	31-128	
Carbon tetrachloride	ug/L	50	50.7	101	54-144	
Chlorobenzene	ug/L	50	50.0	100	70-127	
Chloroethane	ug/L	50	48.1	96	17-195	
Chloroform	ug/L	50	47.8	96	73-134	
Chloromethane	ug/L	50	49.9	100	17-153	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	68-129	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	72-138	
Dibromochloromethane	ug/L	50	47.8	96	49-146	
Dibromomethane	ug/L	50	50.8	102	56-145	
Enflurane	ug/L	50	50.8	102	56-135	
Ethylbenzene	ug/L	50	48.9	98	66-126	
Haloether 229	ug/L	50	48.1	96	62-123	
Haloether 406	ug/L	50	52.5	105	62-134	
Haloether 421	ug/L	50	49.9	100	70-128	
Haloether 427	ug/L	50	55.1	110	69-153	
Haloether 428	ug/L	50	50.9	102	70-134	
Haloether 508	ug/L	50	51.7	103	52-139	
Haloether 528	ug/L	50	58.0	116	48-157	
Halomar	ug/L	50	50.3	101	62-128	

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ABORATORY CONTROL SAMPLE:	241749					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
soflurane	ug/L	50	52.4	105	61-132	
n&p-Xylene	ug/L	100	100	100	65-129	
1ethoxyflurane	ug/L	50	49.4	99	72-124	
Methylene Chloride	ug/L	50	46.7	93	46-168	
-Xylene	ug/L	50	50.0	100	65-124	
Styrene	ug/L	50	50.1	100	72-133	
etrachloroethene	ug/L	50	49.1	98	46-157	
oluene	ug/L	50	50.4	101	69-126	
otal Haloether	ug/L		569			
ans-1,2-Dichloroethene	ug/L	50	46.1	92	60-129	
ans-1,3-Dichloropropene	ug/L	50	52.1	104	59-149	
richloroethene	ug/L	50	48.8	98	67-132	
richlorofluoromethane	ug/L	50	58.5	117	39-171	
inyl chloride	ug/L	50	43.9	88	27-149	
-Bromofluorobenzene (S)	%.			98	68-124	
ibromofluoromethane (S)	%.			100	72-126	
oluene-d8 (S)	%.			100	79-119	

MATRIX SPIKE & MATRIX SPIR	VE DOPLIC	CATE: 24094	8		240949							
Parameter	Units	2039265003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
1,1,1-Trichloroethane	ug/L	ND	50	50	53.8	48.1	108	96	54-137	11	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.0	45.6	94	91	15-187	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.1	51.0	104	102	59-148	2	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	36.5	31.8	73	64	40-117	14	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.8	43.0	94	86	59-133	8	20	
1,1-Dichloroethene	ug/L	ND	50	50	31.7	28.5	63	57	44-146	11	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	48.9	47.1	98	94	14-199	4	20	
1,2-Dichloroethane	ug/L	ND	50	50	47.8	45.4	96	91	56-154	5	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.9	45.7	98	91	62-135	7	20	
2-Butanone (MEK)	ug/L	ND	50	50	50.7	49.7	100	98	20-205	2	20	
2-Hexanone	ug/L	ND	50	50	53.5	52.6	107	105	25-189	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	50.8	51.0	102	102	23-184	0	20	
Acetone	ug/L	23.8	50	50	57.8	57.2	68	67	11-217	1	20	
Acrolein	ug/L	ND	100	100	ND	ND	1	1	10-142		20	M1
Acrylonitrile	ug/L	ND	50	50	48.1	46.3	96	93	20-164	4	20	
Benzene	ug/L	ND	50	50	51.5	48.2	103	96	52-141	7	20	
Bromodichloromethane	ug/L	ND	50	50	49.5	47.0	99	94	70-134	5	20	
Bromoform	ug/L	ND	50	50	51.0	48.4	101	96	37-171	5	20	
Bromomethane	ug/L	ND	50	50	50.3	42.2	101	84	34-155	17	20	
Carbon disulfide	ug/L	ND	50	50	42.0	34.0	84	68	28-130	21	20	R1
Carbon tetrachloride	ug/L	ND	50	50	51.0	47.0	102	94	48-146	8	20	
Chlorobenzene	ug/L	ND	50	50	50.5	47.9	101	96	67-129	5	20	

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MATRIX SPIKE & MATRIX SPI	IKE DUPLIC	ATE: 240948	3		240949							
			MS	MSD								
		2039265003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Chloroethane	ug/L	ND	50	50	47.0	41.3	94	83	12-192	13	20	
Chloroform	ug/L	ND	50	50	47.3	43.9	95	88	66-143	8	20	
Chloromethane	ug/L	ND	50	50	55.4	47.9	110	95	14-155	15	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.7	45.8	99	92	56-141	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	35.4	34.2	71	68	70-139	3	20	M1
Dibromochloromethane	ug/L	ND	50	50	45.8	44.7	92	89	50-150	2	20	
Dibromomethane	ug/L	ND	50	50	50.6	49.4	101	99	58-153	2	20	
Enflurane	ug/L	ND	50	50	49.7	44.8	99	90	63-126	10	20	
Ethylbenzene	ug/L	ND	50	50	23.8	22.0	48	44	57-135	8	20	M1
Haloether 229	ug/L	ND	50	50	47.8	35.5	96	71	56-127	30	20	R1
Haloether 406	ug/L	ND	50	50	47.5	41.9	95	84	68-128	12	20	
Haloether 421	ug/L	ND	50	50	52.3	49.3	105	99	74-120	6	20	
Haloether 427	ug/L	ND	50	50	54.0	50.6	108	101	78-120	7	20	
Haloether 428	ug/L	ND	50	50	51.3	48.2	103	96	74-125	6	20	
Haloether 508	ug/L	ND	50	50	48.5	41.7	97	83	28-156	15	20	
Haloether 528	ug/L	ND	50	50	48.7	45.4	97	91	45-142	7	20	
Halomar	ug/L	ND	50	50	51.5	47.2	103	94	67-123	9	20	
soflurane	ug/L	ND	50	50	51.5	45.6	103	91	45-140	12	20	
n&p-Xylene	ug/L	ND	100	100	19.8	18.3	20	18	56-136	8	20	M1
Methoxyflurane	ug/L	ND	50	50	51.2	48.8	102	98	75-119	5	20	
Methylene Chloride	ug/L	ND	50	50	46.9	42.3	94	85	45-166	10	20	
o-Xylene	ug/L	ND	50	50	.53J	ND	1	1	57-133		20	M1
Styrene	ug/L	ND	50	50	ND	1.6	0	3	58-144		20	M1
Tetrachloroethene	ug/L	ND	50	50	49.1	45.4	98	91	48-143	8	20	
Toluene	ug/L	ND	50	50	21.2	19.5	42	39	59-136	8	20	M1
Total Haloether	ug/L	ND			554	499				10		
rans-1,2-Dichloroethene	ug/L	ND	50	50	47.6	42.8	95	86	57-132	11	20	
rans-1,3-Dichloropropene	ug/L	ND	50	50	38.2	36.4	76	73	59-154	5	20	
Frichloroethene	ug/L	ND	50	50	50.9	46.7	102	93	58-140	9	20	
Trichlorofluoromethane	ug/L	ND	50	50	51.7	44.5	103	89	24-175	15	20	
Vinyl chloride	ug/L	ND	50	50	2.6	2.0	5	4	21-150	25	20	M1,R
4-Bromofluorobenzene (S)	%.						100	100	68-124			•
Dibromofluoromethane (S)	%.						97	97	72-126			
Toluene-d8 (S)	%.						101	101	79-119			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

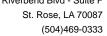
PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

Date: 07/18/2016 04:24 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2039265

Date: 07/18/2016 04:24 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2039265001	TB-20160705	EPA 5030B/8260	58330		
2039265002	INF-20160705	EPA 5030B/8260	58330		
2039265003	EFF-20160705	EPA 5030B/8260	58330		
2039265004	EFF-20160705 DUP	EPA 5030B/8260	58330		

MO#: 2039265

CHAIN-OF-CUSTODY / Analytical Request Document

OTHER CE PC 4 DRINKING WATER 1947871 GROUND WATER REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) NPDES STATE: Site Location The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. T UST Reference:
Page Profile:
Page Profile:
Page Profile: Arcadis Attention: Accounts Invoice Information: ompany Name: Section C ace Quote Address: Purchase Order No.: CD po1911, D003
Project Name: Fibers Public Supply Viells COPY TO: CASSANDIA Maclous REPORT DAKIN HOMAN 1000 19 11.000Z Required Project Information: Project Number: 14 to 1000 mail To: de vide hexiend & merdisone Company: Aread'S US, INC 2039265 MORNIX, AZ 85008 Pace An Section A Required Client Information: 102-747-4518 Requested Due Date/TAT TEN SET

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	4	Drinking Water DW Water WT Waste Water WW Product P Soll/Soild SL		see valid codes t		COMPOSITE	გ ш	COMPOSITE END/GRAB	ОГГЕСТІОИ	S				<u>†</u>	21sthode						(N/A)	4	8	5	
# M3TI	Sample IDs MUST BE UNIQUE	Wile Will Air Tissue Other			DATE	HIME	E DATE	E MIT	TA GMƏT ƏJGMAR	# OF CONTAINER	HMO³ H ^S 2O⁴	NgOH HCI	Methanol	Other Test Test	4500 vect #						Residual Chlorine		Project	Pace Project No / Lab I D	
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F-ALL-Q-020rev.07, 15-May-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any involves not path within 30 days.

WO#: 2039265

Due Date: 07/20/16

CLIENT - 20_CHEV_QRC

Pace Analytical	Sai	mpie Cond	aition	upon ke	OLIZNI:	20-CHEV-HRC	
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Custody Seal on Cooler/Box	Present: [see	coc]			Cust	tody Seals intact:	□Yes □No
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Chain of Custody Complete:		☐Yes □No	□n/a	3			
Chain of Custody Relinquish		∐Yes □No	□n/a				· · · · · ·
Sampler Name & Signature		☐Yes □No	□n/a				
Samples Arrived within Hold		☑Yes □No	□n/a	6		· · · · · · · · · · · · · · · · · · ·	·
Sufficient Volume:		□res □No	□n/a	7			
Correct Containers Used:		∐Yes □No	□n/a	8			-
Filtered vol. Rec. for Diss. te	ests	□Yes ☑No	□N/A				
Sample Labels match COC:		□Yes □No	□N/A				
All containers received within precautionary and/or expirat	n manafacture's	□Yes □No		11			
All containers needing chem been checked (except VOA,		□Yes □No		n 12			
All containers preservation of compliance with EPA recom		□Yes □No			vas preserativ d record lot no		No H2SO4
Headspace in VOA Vials (>	6mm):	□Yes □No	□n/a	14			
Trip Blank Present:		ØYes □No		15			
Client Notification/ Resolu	ution:			<u> </u>			
Person Contacted:						Date/Time:	
Comments/ Resolution:							
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Attachment 3 GWETS Sampling and Monitoring Field Form, July 5, 2016



Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time	Sampler's Initials
July 5, 2016	INF-20160705	1150	EBR
July 5, 2016	EFF-20140705	1230	EDIZ
	EFFDUP- 20160705	1230	EDR
	EFFMS - 20160705	1230	EDR
July 5, 2016		1230	EDR
July 5, 2016	TB-20160705	LAB	EDR

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	115.2	gpm
RW-4	144.6	gpm
RW-5	74.9	gpm

Compound Treatment System

Compound Treatment System		
Influent Flow Rate (FIT-101)	333,3	gpm
Effluent Flow Rate (FIT-301)	361.9	gpm
Blower (FIT-201A)	2474	cfm
Influent Flow Pressure (PIT-101)	3.3	psi
Effluent Flow Pressure (PIT-301)	13.2	psi.
pH (pHIT-201A)	8.1	**********

Notes:

gpm = gallons per minute cfm = cubic feet per minute psi = pounds per square inch

Attachment 4 GWETS Influent and Effluent Sampling Results, July 11, 2016

Table D-1 **GWETS Influent and Effluent Sampling Results**



July 11, 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Parameter	1990 PR Water Quality Standard - Superficial Waters (SD)	Influent Sample (July 11, 2016)	Effluent Sample (July 11, 2016)
Total Metals (µg/L)			
Arsenic	50	<50	<50
Barium	1,000	<1,000	<1,000
Beryllium	0.068	<0.50	<0.50
Boron	1,000	<1,000	<1,000
Cadmium ¹	2.0	<2.0	<2.0
Chromium	50.0	<50.0	<50.0
Copper 1	21.8	<21.8	<21.8
Lead 1	7.9	<7.9	<7.9
Manganese	50.0	<50.0	<50.0
Mercury	1.0	<1.0	<1.0
Nickel ¹	289.4	<289.4	<289.4
Selenium	10.0	<10.0	<10.0
Silver	2.0	<2.0	<2.0
Zinc	50	<50.0	<50.0
Other Inorganics (µg/L)			
Nitrate + Nitrite	10,000	<10,000	<10,000
Cyanide	20.0	31.0	<20.0
Fluoride	700.0	<700.0	<700.0
Sulfate	250,000	<250,000	<250,000
Sulfide	2.0	<20.0 UJ	<20.0

Notes:

 μ g/L = micrograms per liter. UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

¹ Calculated standard based on hardness value of 205 mg/L.



Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Metals and Miscellaneous Analyses

SDG #2039549 Analyses Performed By: Pace Analytical Services, Inc. New Orleans, Louisiana

Report: #25959R Review Level: Tier II

Project: CO001911.0003.1605A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2039549 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

			Sample	Parent		Aı	nalysi	s	
Sample ID	Lab ID	Matrix	Collection Date	Sample	voc	svoc	TPH	MET	MISC
INF-(20160711)	2039549001	Water	07/11/2016					Χ	Х
EFF-(20160711)	2039549003	Water	07/11/2016					Χ	Х

Note:

- 1. The proper sample containers were not provided for EPA Method 1631 (low level Mercury) therefore, EPA Method 200.8 was performed for Mercury analysis.
- 2. A matrix spike(MS)/laboratory duplicate analysis was performed on sample location INF-(20160711) for Sulfide.
- 3. Miscellaneous analyses include Total Cyanide, Total Hardness, Fluoride, Nitrate-Nitrite, Sulfide, Sulfate and TKN..

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 6010, EPA Methods 200.8, 300.0 and 351.2, Standard Methods (SM) 2340C, 4500 CN-E, 4500 NO3-F and 4500 S-2D and ASTM D516-90,02. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery is not within control limits.
- * Duplicate analysis is not within control limits.

Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- UB Analyte considered non-detect at the listed value due to associated blank contamination.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation		
SW-846 6010	Motor	Cool to <6°C;			
EPA 200.8 (except Hg)	Water	180 days from collection to analysis	preserved to a pH of less than 2 s.u.		
EPA 200.8 (Hg only)	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.		

The samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS: SW-846 6010, EPA 200.8		orted		mance ptable	Not				
	No	Yes	No	Yes	Required				
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)									
Tier II Validation									
Holding Times		Х		Х					
Reporting limits (units)		Х		Χ					
Blanks									
A. Method Blanks		Χ		Х					
B. Equipment/Field Blanks					Х				
Laboratory Control Sample (LCS)		Х		Χ					
Matrix Spike (MS) %R		Х		Χ					
Matrix Spike Duplicate (MSD) %R		Х		Χ					
MS/MSD Precision (RPD)		Х		Χ					
Field/Lab Duplicate (RPD)					Х				
Reporting Limit Verification					Х				
Raw Data					Х				

%R Percent recovery
RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Fluoride by EPA 300.0	Water	28 days from collection to analysis	Cool to <6 °C.
Sulfate by ASTM D516-90,02	Water	28 days from collection to analysis	Cool to <6 °C.
Total Hardness by SM 2340C	Water	180 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2.
Nitrate+Nitrite by SM 4500 NO3-F	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
SM 4500 CN-E (Cyanide, Total)	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.
SM 4500 S-2 D (Sulfide, Total)	Water	7 days from collection to analysis	Zinc acetate; preserved to a pH of greater than 9
EPA 351.2 (TKN)	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%.

The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

All analytes associated with MS recoveries were within control limits with the exception of the following analytes present in the table below.

Sample Location	Analytes	MS Recovery
INF-(20160711)	Sulfide	41%

The criteria used to evaluate MS recoveries are presented in the following table. In the case of an MS deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Control limit	Sample Result	Qualification
MS percent recovery 30% to 74%	Non-detect	UJ
wis percent recovery 30% to 74%	Detect	J
MS percent receivery (200/	Non-detect	R
MS percent recovery <30%	Detect	J
MC percent recovery 1259/	Non-detect	No Action
MS percent recovery >125%	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

The laboratory duplicate sample results exhibited RPD within the control limit.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery

between the control limits of 80% and 120%.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: Miscellaneous Methods	Rep	orted		mance ptable	Not Required	
	No	Yes	No	Yes	Required	
Miscellaneous Instrumentation						
Tier II Validation						
Holding times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks						
A. Method blanks		Х		Х		
B. Equipment blanks					Х	
Laboratory Control Sample (LCS) %R		Х		Х		
Laboratory Control Sample Duplicate(LCSD) %R					Х	
LCS/LCSD Precision (RPD)					Х	
Matrix Spike (MS) %R		Х	Х			
Matrix Spike Duplicate(MSD) %R					Х	
MS/MSD Precision (RPD)					Х	
Field/Lab Duplicate (RPD)		Х		Х		
Dilution Factor		Х		Х		
Moisture Content					Х	

[%]RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

DATE: July 24, 2016

PEER REVIEW: Dennis Capria

DATE: July 28, 2016

CHAIN OF CUSTODY/ ANNOTATED SAMPLE ANALYSIS DATA SHEETS



Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

Sample: INF-(20160711)	Lab ID: 203	9549001	Collected: 07/11/1	6 11:40	Received: 07	7/12/16 11:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Meth	nod: EPA 6	010 Preparation Met	hod: EPA	A 3010			
Sulfur	10400	ug/L	100	1	07/14/16 08:22	07/15/16 18:19	9	
200.8 Metals, Total	Analytical Meth	nod: EPA 2	00.8 Preparation Met	thod: EP	A 200.8			
Arsenic	ND	ug/L	1.0	1	07/14/16 10:49	07/14/16 15:1	1 7440-38-2	
Barium	15.0	ug/L	1.0	1	07/14/16 10:49			
Beryllium	ND	ug/L	0.50	1	07/14/16 10:49			
Boron	99.9	ug/L	5.0	1	07/14/16 10:49			
Cadmium	ND	ug/L	1.0	1	07/14/16 10:49			
Chromium	ND	ug/L	1.0	1	07/14/16 10:49			
Copper	ND	ug/L	3.0	1	07/14/16 10:49			
Lead	ND	ug/L	1.0	1	07/14/16 10:49			
Manganese	ND	ug/L	1.0	1	07/14/16 10:49			
Mercury	ND	ug/L	0.20	1	07/14/16 10:49			
Nickel	ND	ug/L	1.0	1	07/14/16 10:49			
Selenium	1.4	ug/L	1.0	1	07/14/16 10:49			
Silver	ND	ug/L	0.50	1	07/14/16 10:49			
Zinc	ND	ug/L	5.0	1	07/14/16 10:49	07/14/16 15:17	1 7440-66-6	
2340C Hardness, Total	Analytical Meth	nod: SM 23	40C					
Total Hardness	208	mg/L	5.0	1		07/15/16 10:34	4	
4500S2D Sulfide, Total	Analytical Meth	nod: SM 45	00-S-2 D					
Sulfide, Total	ND	mg/L	0.020	1		07/14/16 11:14	18496-25-8	M1 J
Total Nitrogen Calculation	Analytical Meth	nod: 40CFF	R PART 432.2					
Nitrogen	1.2	mg/L	1.0	1		07/19/16 13:30	0 7727-37-9	
300.0 IC Anions 28 Days	Analytical Meth	nod: EPA 3	00.0					
Fluoride	0.32	mg/L	0.10	1		07/13/16 16:0	7 16984-48-8	
351.2 Total Kjeldahl Nitrogen	Analytical Meth	nod: EPA 3	51.2 Preparation Met	thod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.25	mg/L	0.10	1	07/15/16 10:50	07/16/16 13:4	8 7727-37-9	
4500CNE Cyanide, Total	Analytical Meth	nod: SM 45	00-CN-E Preparation	n Method	d: SM 4500-CN-0			
Cyanide	0.031	mg/L	0.010	1	07/18/16 13:30	07/19/16 10:3	5 57-12-5	
4500NO3-F, NO3-NO2	Analytical Meth	nod: SM 45	00-NO3 F					
Nitrogen, NO2 plus NO3	0.94	mg/L	0.050	1		07/15/16 15:34	4	
ASTM D516-9002 Sulfate Water	Analytical Meth	nod: ASTM	D516-90,02					
Sulfate	34.6	mg/L	1.0	1		07/14/16 15:1	1 14808-79-8	



Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

Sample: EFF-(20160711)	Lab ID: 2039	9549003	Collected: 07/11/1	6 12:03	Received: 07	7/12/16 11:00 I	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua	
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Sulfur	10600	ug/L	100	1	07/14/16 08:22	07/15/16 18:23	3		
200.8 Metals, Total	Analytical Meth	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	ND	ug/L	1.0	1	07/14/16 10:49	07/14/16 15:15	7440-38-2		
Barium	14.9	ug/L	1.0	1		07/14/16 15:15			
Beryllium	ND	ug/L	0.50	1		07/14/16 15:15	-		
Boron	96.9	ug/L	5.0	1		07/14/16 15:15			
Cadmium	ND	ug/L	1.0	1		07/14/16 15:15			
Chromium	ND	ug/L	1.0	1		07/14/16 15:15			
Copper	ND	ug/L	3.0	1		07/14/16 15:15			
Lead	ND	ug/L	1.0	1		07/14/16 15:15			
Manganese Mercury	ND ND	ug/L	1.0 0.20	1 1		07/14/16 15:15 07/14/16 15:15			
Vickel	ND ND	ug/L ug/L	1.0	1		07/14/16 15:15			
Selenium	1.4	ug/L ug/L	1.0	1		07/14/16 15:15			
Silver	ND	ug/L ug/L	0.50	1		07/14/16 15:15			
Zinc	ND	ug/L	5.0	1		07/14/16 15:15			
340C Hardness, Total	Analytical Meth	_			01/14/10 10.40	01/14/10 10:10	7440 00 0		
Total Hardness	202	mg/L	5.0	1		07/15/16 10:42	,		
500S2D Sulfide, Total	Analytical Meth	_		·		0.7.07.0	•		
Sulfide, Total	ND	mg/L	0.020	1		07/14/16 11:16	18496-25-8		
Fotal Nitrogen Calculation	Analytical Meth	ŭ				0771-4710 11.10	10400 20 0		
Nitrogen	1.1	mg/L	1.0	1		07/19/16 13:30	7727-37-0		
800.0 IC Anions 28 Days	Analytical Meth	•		'		07/10/10 13.30	7 7727-37-3		
Fluoride	0.29	mg/L	0.10	1		07/13/16 16:07	7 1608 <i>1</i> -48-8		
		•	51.2 Preparation Met		ν γ 251 2	07/13/10 10.07	10304-40-0		
851.2 Total Kjeldahl Nitrogen	•		•			07/16/16 13:49	7727 27 0		
Nitrogen, Kjeldahl, Total	0.16	mg/L	0.10	1			1 1121-31-9		
I500CNE Cyanide, Total	•		00-CN-E Preparation						
Cyanide	ND	mg/L	0.010	1	07/18/16 13:30	07/19/16 10:40	57-12-5		
1500NO3-F, NO3-NO2	Analytical Meth								
Nitrogen, NO2 plus NO3	0.89	mg/L	0.050	1		07/15/16 15:37	,		
ASTM D516-9002 Sulfate Water	Analytical Meth	od: ASTM	D516-90,02						
Sulfate	35.1	mg/L	1.0	1		07/14/16 15:11	14808-79-8		

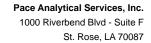
MO#: 2039549 The Chain-of-Custody is a LEGAL DOCUM CHAIN-OF-CUSTODY /

Section C

Section B

Face Analytical"

OTHER CEPCLA Pace Project No./ Lab I.D. (N/A) DRINKING WATER Samples Intact SAMPLE CONDITIONS F-ALL-Q-020rev.07, 15-May-2007 194832 (N/λ) Sealed Coole Custody Ice (Y/N) Received on GROUND WATER 2/5 Residual Chlorine (Y/N) O° ni qmeT 100 REGULATORY AGENCY RCRA 12 33 Requested Analysis Filtered (Y/N) TIME 2014 STATE: 1-11-6 Site Location NPDES DATE NO-005h (MIM/DD/YY): July 1/ UST 2340 CMM 0055 00 24 4200 25 × Wanager Just M. Streck @ grace 1485.00 ACCEPTED BY / AFFILIATION EPA 300.0 Accounts Payable 七.002 8.00Z t Analysis Test N/J Arcadis Methanol Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days Preservatives Na₂S₂O₃ NaOH E. Dulgado HCI €ОИН Invoice Informatio, Sompany Name: i oc [⊅]OS^ZH Attention: Pace Quote Reference: TIME Unpreserved Address: 5 SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION 7-11-15 roject Name: Fibers Wyelt Invisely, which DATE 1203 TIME eassander, medand 6 anonalisms.com Junchase Order No.: [000 19 11 - 5003 - 1402 A COMPOSITE END/GRAB 41-11-15 4-1-12 DATE Mechan COLLECTED RELINQUISHED BY / AFFILIATION Howard (1000 19 11 . 0003 TIME Aread? COMPOSITE Copy To: Cassayldra DATE Required Project Information: Report To: Davie (G=GRAB C=COMP) SAMPLE TYPE J Project Number: ONCHA Matrix Codes
MATRIX / CODE Representati Metals: As Ba De Drinking Water Water B. Cd. C. Cu, Mm, Ni, Ag, Pb, Sc, Waste Water Product Soil/Solid Oil Wipe Arl Tissue Other Email To: David. howard @arcudis-wo.com 410 North 44th St., Switc 1000 Company: Aread'S W.S., I'ME Phoenix, AZ. 45009 ADDITIONAL COMMENTS 1150 1105) (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 11 401)02 Requested Due Date/TAT: SAMPLE ID Required Client Information 100% - 797 - 1516 Required Client Information: TAF EFF Section D က 9 10 Ξ # WHI ~ o Page 30 of 31



(504)469-0333



July 20, 2016

David Howard ARCADIS 410 North 44th St. Suite 1000 Phoenix, AZ 85008

RE: Project: Fibers Project

Pace Project No.: 2039549

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on July 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Justin L. Stock

Justin Stock

justin.stock@pacelabs.com

Project Manager

Enclosures

cc: Janisse Diaz, Arcadis Cassandra McCloud Elvin Varela, ARCADIS



1000 Riverbend Blvd - Suite F St. Rose, LA 70087 (504)469-0333



CERTIFICATIONS

Project: Fibers Project
Pace Project No.: 2039549

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:

11277CA

Florida Department of Health (NELAC): E87595 Illinois Environmental Protection Agency: 0025721 Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

Commonwealth of Virginia (TNI): 480246

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SAMPLE SUMMARY

Project: Fibers Project
Pace Project No.: 2039549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2039549001	INF-(20160711)	Water	07/11/16 11:40	07/12/16 11:00
2039549003	EFF-(20160711)	Water	07/11/16 12:03	07/12/16 11:00



SAMPLE ANALYTE COUNT

Project: Fibers Project
Pace Project No.: 2039549

ab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
039549001	INF-(20160711)	EPA 6010	MHB1	1	PASI-N
		EPA 200.8	KJR	14	PASI-N
		SM 2340C	SMS2	1	PASI-N
		SM 4500-S-2 D	SMS2	1	PASI-N
		40CFR PART 432.2	TAE	1	PASI-N
		EPA 300.0	SMS2	1	PASI-N
		EPA 351.2	CN	1	PASI-N
		SM 4500-CN-E	SMS2	1	PASI-N
		SM 4500-NO3 F	CN	1	PASI-N
		ASTM D516-90,02	SMS2	1	PASI-N
039549003	EFF-(20160711)	EPA 6010	MHB1	1	PASI-N
		EPA 200.8	KJR	14	PASI-N
	SM 2340C	SMS2	1	PASI-N	
	SM 4500-S-2 D	SMS2	1	PASI-N	
		40CFR PART 432.2	TAE	1	PASI-N
		EPA 300.0	SMS2	1	PASI-N
		EPA 351.2	CN	1	PASI-N
		SM 4500-CN-E	SMS2	1	PASI-N
		SM 4500-NO3 F	CN	1	PASI-N
		ASTM D516-90,02	SMS2	1	PASI-N





PROJECT NARRATIVE

Project: Fibers Project Pace Project No.: 2039549

Method: **EPA 6010**

Description: 6010 Metals, Total Client: **ARCADIS**

Date: July 20, 2016

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



1000 Riverbend Blvd - Suite F St. Rose, LA 70087 (504)469-0333

PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: EPA 200.8

Description: 200.8 Metals, Total

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



St. Rose, LA 70087 (504)469-0333

PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: SM 2340C

Description: 2340C Hardness, Total

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for SM 2340C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 58683

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2039549001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 243166)
 - Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: 40CFR PART 432.2

Description: Total Nitrogen Calculation

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for 40CFR PART 432.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: EPA 351.2

Description: 351.2 Total Kjeldahl Nitrogen

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 58966

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 243555)
 - Nitrogen, Kjeldahl, Total



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: SM 4500-CN-E

Description: 4500CNE Cyanide, Total

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 4500-CN-C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: SM 4500-NO3 F
Description: 4500NO3-F, NO3-NO2

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for SM 4500-NO3 F. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Fibers Project
Pace Project No.: 2039549

Method: ASTM D516-90,02

Description: ASTM D516-9002 Sulfate Water

Client: ARCADIS

Date: July 20, 2016

General Information:

2 samples were analyzed for ASTM D516-90,02. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 58857

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2039594001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 243025)
 - Sulfate

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

Sample: INF-(20160711)	Lab ID: 2039	9549001	Collected: 07/11/1	6 11:40	Received: 07	7/12/16 11:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Meth	od: EPA 60	010 Preparation Meth	od: EP/	A 3010			
Sulfur	10400	ug/L	100	1	07/14/16 08:22	07/15/16 18:1	9	
200.8 Metals, Total	Analytical Meth	od: EPA 20	00.8 Preparation Met	hod: EP	'A 200.8			
Arsenic	ND	ug/L	1.0	1	07/14/16 10:49	07/14/16 15:1	1 7440-38-2	
Barium	15.0	ug/L	1.0	1	07/14/16 10:49			
Beryllium	ND	ug/L	0.50	1	07/14/16 10:49			
Boron	99.9	ug/L	5.0	1	07/14/16 10:49			
Cadmium	ND	ug/L	1.0	1	07/14/16 10:49			
Chromium	ND	ug/L	1.0 3.0	1 1	07/14/16 10:49			
Copper Lead	ND ND	ug/L	3.0 1.0	1	07/14/16 10:49 07/14/16 10:49			
Manganese	ND ND	ug/L ug/L	1.0	1	07/14/16 10:49			
Mercury	ND ND	ug/L	0.20	1	07/14/16 10:49			
lickel	ND	ug/L	1.0	1	07/14/16 10:49			
Selenium	1.4	ug/L	1.0	1	07/14/16 10:49			
Silver	ND	ug/L	0.50	1	07/14/16 10:49			
Zinc	ND	ug/L	5.0	1	07/14/16 10:49	07/14/16 15:1	1 7440-66-6	
2340C Hardness, Total	Analytical Meth	od: SM 23	40C					
Total Hardness	208	mg/L	5.0	1		07/15/16 10:3	4	
500S2D Sulfide, Total	Analytical Meth	od: SM 45	00-S-2 D					
Sulfide, Total	ND	mg/L	0.020	1		07/14/16 11:14	4 18496-25-8	M1
Total Nitrogen Calculation	Analytical Meth	od: 40CFF	R PART 432.2					
Nitrogen	1.2	mg/L	1.0	1		07/19/16 13:3	0 7727-37-9	
800.0 IC Anions 28 Days	Analytical Meth	od: EPA 30	0.00					
Fluoride	0.32	mg/L	0.10	1		07/13/16 16:0	7 16984-48-8	
351.2 Total Kjeldahl Nitrogen	Analytical Meth	od: EPA 3	51.2 Preparation Met	hod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.25	mg/L	0.10	1	07/15/16 10:50	07/16/16 13:4	8 7727-37-9	
500CNE Cyanide, Total	Analytical Meth	od: SM 45	00-CN-E Preparation	Method	d: SM 4500-CN-0			
Cyanide	0.031	mg/L	0.010	1	07/18/16 13:30	07/19/16 10:3	5 57-12-5	
1500NO3-F, NO3-NO2	Analytical Meth	od: SM 45	00-NO3 F					
Nitrogen, NO2 plus NO3	0.94	mg/L	0.050	1		07/15/16 15:3	4	
ASTM D516-9002 Sulfate Water	Analytical Meth	od: ASTM	D516-90,02					
Sulfate	34.6	mg/L	1.0	1		07/14/16 15:1	1 14808-79-8	



ANALYTICAL RESULTS

Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

Sample: EFF-(20160711)	Lab ID: 2039	9549003	Collected: 07/11/1	6 12:03	Received: 07	7/12/16 11:00 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6010 Metals, Total	Analytical Meth	od: EPA 60	010 Preparation Meth	nod: EP/	A 3010			
Sulfur	10600	ug/L	100	1	07/14/16 08:22	07/15/16 18:23		
200.8 Metals, Total	Analytical Meth	od: EPA 20	00.8 Preparation Met	hod: EP	'A 200.8			
Arsenic	ND	ug/L	1.0	1	07/14/16 10:49	07/14/16 15:15	7440-38-2	
Barium	14.9	ug/L	1.0	1		07/14/16 15:15		
Beryllium	ND	ug/L	0.50	1		07/14/16 15:15	_	
Boron	96.9	ug/L	5.0	1		07/14/16 15:15		
Cadmium	ND	ug/L	1.0	1		07/14/16 15:15		
Chromium	ND	ug/L	1.0	1		07/14/16 15:15		
Copper	ND	ug/L	3.0	1		07/14/16 15:15		
_ead	ND	ug/L	1.0	1		07/14/16 15:15		
Manganese Mercury	ND ND	ug/L	1.0 0.20	1 1		07/14/16 15:15 07/14/16 15:15		
Nickel	ND ND	ug/L ug/L	1.0	1		07/14/16 15:15		
Selenium	1.4	ug/L ug/L	1.0	1		07/14/16 15:15		
Silver	ND	ug/L ug/L	0.50	1		07/14/16 15:15		
Zinc	ND	ug/L	5.0	1		07/14/16 15:15		
2340C Hardness, Total	Analytical Meth	_		•	01/14/10 10.40	01/14/10 10:10	7440 00 0	
Total Hardness	202	mg/L	5.0	1		07/15/16 10:42		
500S2D Sulfide, Total	Analytical Meth	_		·		01,10,10		
Sulfide, Total	ND	mg/L	0.020	1		07/14/16 11:16	18496-25-8	
Total Nitrogen Calculation	Analytical Meth	ŭ		·		0.7.17.10	.0.00 20 0	
Nitrogen	1.1	mg/L	1.0	1		07/19/16 13:30	7727-37-9	
800.0 IC Anions 28 Days	Analytical Meth	•						
Fluoride	0.29	mg/L	0.10	1		07/13/16 16:07	16984-48-8	
351.2 Total Kjeldahl Nitrogen	Analytical Meth	•	51.2 Preparation Met	hod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.16	mg/L	0.10	1		07/16/16 13:49	7727-37-9	
1500CNE Cyanide, Total	Analytical Meth	•	00-CN-E Preparation	n Method	d: SM 4500-CN-0			
Cyanide	ND	mg/L	0.010	1		07/19/16 10:40	57-12-5	
500NO3-F, NO3-NO2	Analytical Meth							
Nitrogen, NO2 plus NO3	0.89	mg/L	0.050	1		07/15/16 15:37		
ASTM D516-9002 Sulfate Water	Analytical Meth	_						
Sulfate	35.1	mg/L	1.0	1		07/14/16 15:11	14808-79-8	
		······································	1.0	•				



QUALITY CONTROL DATA

Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

QC Batch: 58896 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 243155 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	1.0	07/14/16 14:01	
Barium	ug/L	ND	1.0	07/14/16 14:01	
Beryllium	ug/L	ND	0.50	07/14/16 14:01	
Boron	ug/L	ND	5.0	07/14/16 14:01	
Cadmium	ug/L	ND	1.0	07/14/16 14:01	
Chromium	ug/L	ND	1.0	07/14/16 14:01	
Copper	ug/L	ND	3.0	07/14/16 14:01	
Lead	ug/L	ND	1.0	07/14/16 14:01	
Manganese	ug/L	ND	1.0	07/14/16 14:01	
Mercury	ug/L	ND	0.20	07/14/16 14:01	
Nickel	ug/L	ND	1.0	07/14/16 14:01	
Selenium	ug/L	ND	1.0	07/14/16 14:01	
Silver	ug/L	ND	0.50	07/14/16 14:01	
Zinc	ug/L	ND	5.0	07/14/16 14:01	

LABORATORY CONTROL SAMPLE:	243156	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	ug/L		21.4	107	85-115	
Barium	ug/L	20	20.5	103	85-115	
Beryllium	ug/L	20	21.5	108	85-115	
Boron	ug/L	20	20.0	100	85-115	
Cadmium	ug/L	20	20.6	103	85-115	
Chromium	ug/L	20	20.8	104	85-115	
Copper	ug/L	20	21.6	108	85-115	
Lead	ug/L	20	19.8	99	85-115	
Manganese	ug/L	20	21.0	105	85-115	
Mercury	ug/L	4	4.0	99	85-115	
Nickel	ug/L	20	21.2	106	85-115	
Selenium	ug/L	20	21.3	106	85-115	
Silver	ug/L	20	20.5	102	85-115	
Zinc	ug/L	20	22.4	112	85-115	

MATRIX SPIKE SAMPLE:	243158						
		2039550001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	ug/L	0.0022 mg/L	20	23.1	105	70-130	
Barium	ug/L	0.093 mg/L	20	116	114	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: Fibers Project
Pace Project No.: 2039549

MATRIX SPIKE SAMPLE:	243158						
		2039550001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Beryllium	 ug/L	ND	20	21.4	107	70-130	
Boron	ug/L	158	20	181	114	70-130	
Cadmium	ug/L	ND	20	20.8	103	70-130	
Chromium	ug/L	0.0023 mg/L	20	23.1	104	70-130	
Copper	ug/L	0.035 mg/L	20	60.5	126	70-130	
Lead	ug/L	0.0047 mg/L	20	24.8	100	70-130	
Manganese	ug/L	268	20	290	110	70-130	
Mercury	ug/L	ND	4	4.1	100	70-130	
Nickel	ug/L	0.0049 mg/L	20	24.9	100	70-130	
Selenium	ug/L	ND	20	18.0	88	70-130	
Silver	ug/L	ND	20	19.8	98	70-130	
Zinc	ug/L	0.13 mg/L	20	154	97	70-130	

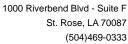
MATRIX SPIKE SAMPLE:	243179						
		2039551001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	 ug/L	0.0013 mg/L	20	22.8	108	70-130	
Barium	ug/L	0.030 mg/L	20	53.2	114	70-130	
Beryllium	ug/L	ND	20	21.9	110	70-130	
Boron	ug/L	161	20	188	132	70-130 N	Л1
Cadmium	ug/L	ND	20	20.8	104	70-130	
Chromium	ug/L	ND	20	21.3	104	70-130	
Copper	ug/L	0.0070 mg/L	20	27.4	102	70-130	
Lead	ug/L	ND	20	21.6	106	70-130	
Manganese	ug/L	6.9	20	27.7	104	70-130	
Mercury	ug/L	ND	4	4.4	108	70-130	
Nickel	ug/L	0.0028 mg/L	20	23.3	102	70-130	
Selenium	ug/L	ND	20	21.2	105	70-130	
Silver	ug/L	ND	20	20.0	100	70-130	
Zinc	ug/L	0.031 mg/L	20	51.3	102	70-130	

SAMPLE DUPLICATE: 243157			
	CAMDI	E DI II	2/2157

Date: 07/20/2016 10:49 AM

		2039550001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Arsenic	ug/L	0.0022 mg/L	2.2	2	20	
Barium	ug/L	0.093 mg/L	96.6	4	20	
Beryllium	ug/L	ND	ND		20	
Boron	ug/L	158	159	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	0.0023 mg/L	2.1	9	20	
Copper	ug/L	0.035 mg/L	36.1	2	20	
Lead	ug/L	0.0047 mg/L	4.3	9	20	
Manganese	ug/L	268	271	1	20	
Mercury	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: Fibers Project
Pace Project No.: 2039549

SAMPLE DUPLICATE: 243157

Date: 07/20/2016 10:49 AM

Parameter	Units	2039550001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nickel	ug/L	0.0049 mg/L	4.7	5	20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Zinc	ug/L	0.13 mg/L	137	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project Pace Project No.: 2039549

QC Batch: 58846 Analysis Method: EPA 6010 QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 242991 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Blank Reporting Limit Qualifiers Parameter Units Result Analyzed ND 100 07/15/16 17:53

Sulfur ug/L

LABORATORY CONTROL SAMPLE: 242992

Date: 07/20/2016 10:49 AM

Spike LCS LCS % Rec Conc. Parameter Units Result % Rec Limits Qualifiers Sulfur ug/L 10000 10200 102 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 242993 242994 MS MSD

2039586004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Sulfur 80-120 20 M1 ug/L 104 mg/L 10000 10000 111000 111000 73 75 0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 242995 242996

MS MSD MS 2039589008 Spike MS Spike MSD MSD % Rec Max Limits RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec RPD Qual Sulfur ug/L 24.4 mg/L 10000 10000 34400 34800 100 104 80-120 1 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project
Pace Project No.: 2039549

QC Batch: 59001 Analysis Method: SM 2340C

QC Batch Method: SM 2340C Analysis Description: 2340C Hardness, Total

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 243637 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Parameter Units Result Limit Analyzed Qualifiers

Total Hardness mg/L ND 5.0 07/15/16 10:24

LABORATORY CONTROL SAMPLE: 243638

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Hardness** mg/L 319 310 97 90-110

SAMPLE DUPLICATE: 243639

Date: 07/20/2016 10:49 AM

2039525001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 190 0 20 **Total Hardness** 190 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project
Pace Project No.: 2039549

QC Batch: 58683 Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 242376 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Sulfide, Total mg/L ND 0.020 07/14/16 11:12

LABORATORY CONTROL SAMPLE: 242377

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Sulfide, Total mg/L .2 0.19 93 90-110

MATRIX SPIKE SAMPLE: 243166

2039549001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers Sulfide, Total ND .2 0.089 41 75-125 M1 mg/L

SAMPLE DUPLICATE: 243165

Date: 07/20/2016 10:49 AM

ParameterUnitsZ039549001 ResultDup ResultRPDMax RPDSulfide, Totalmg/LNDND20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project Pace Project No.: 2039549

QC Batch: 58815 Analysis Method: EPA 300.0 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 242876 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Blank Reporting Parameter Limit Qualifiers Units Result Analyzed

Fluoride ND 0.10 07/13/16 16:07 mg/L

LABORATORY CONTROL SAMPLE: 242877

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Fluoride mg/L 2 2.0 98 90-110

MATRIX SPIKE SAMPLE: 242879

Date: 07/20/2016 10:49 AM

2039376002 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 11.0

Fluoride mg/L

SAMPLE DUPLICATE: 242878 2039376002

Dup Max RPD RPD Parameter Units Result Result Qualifiers Fluoride mg/L 0.31

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project
Pace Project No.: 2039549

QC Batch: 58966 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 243553 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, Kjeldahl, Total mg/L ND 0.10 07/16/16 16:00

LABORATORY CONTROL SAMPLE: 243554

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Kjeldahl, Total mg/L 5.2 4.7 90 80-120

MATRIX SPIKE SAMPLE: 243556

2039600001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 0.19 103 75-125 Nitrogen, Kjeldahl, Total 2.5 2.8 mg/L

SAMPLE DUPLICATE: 243555

Date: 07/20/2016 10:49 AM

2039600001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 0.19 Nitrogen, Kjeldahl, Total mg/L 0.45 82 20 D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Pace Project No.:

Date: 07/20/2016 10:49 AM

Fibers Project

2039549

QUALITY CONTROL DATA

QC Batch: 59109 Analysis Method: SM 4500-CN-E QC Batch Method: SM 4500-CN-C Analysis Description: 4500CNE Cyanide, Total Associated Lab Samples: 2039549001, 2039549003 METHOD BLANK: 244184 Matrix: Water Associated Lab Samples: 2039549001, 2039549003 Blank Reporting Parameter Result Limit Qualifiers Units Analyzed Cyanide ND 0.010 07/19/16 10:29 mg/L LABORATORY CONTROL SAMPLE: 244185

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Cyanide mg/L 0.094 94 80-120 MATRIX SPIKE SAMPLE: 244187 2039280001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers ND 0.073 73 .1 75-125 M1 Cyanide mg/L

SAMPLE DUPLICATE: 244186 2039280001 Dup Max RPD RPD Parameter Units Result Result Qualifiers ND Cyanide mg/L ND 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project
Pace Project No.: 2039549

QC Batch: 58973 Analysis Method: SM 4500-NO3 F

QC Batch Method: SM 4500-NO3 F Analysis Description: SM4500NO3-F, Nitrate, Preserved

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 243571 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, NO2 plus NO3 mg/L ND 0.050 07/15/16 15:03

LABORATORY CONTROL SAMPLE: 243572

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, NO2 plus NO3 mg/L 1.8 1.9 110 90-110

MATRIX SPIKE SAMPLE: 243574

2039525001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers Nitrogen, NO2 plus NO3 2.7 3.7 80-120 1 96 mg/L

SAMPLE DUPLICATE: 243573

Date: 07/20/2016 10:49 AM

2039525001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 2.7 Nitrogen, NO2 plus NO3 mg/L 2.7 0 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Fibers Project
Pace Project No.: 2039549

QC Batch: 58857 Analysis Method: ASTM D516-90,02

QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water

Associated Lab Samples: 2039549001, 2039549003

METHOD BLANK: 243022 Matrix: Water

Associated Lab Samples: 2039549001, 2039549003

Parameter Units Result Limit Analyzed Qualifiers

Sulfate mg/L ND 1.0 07/14/16 09:15

LABORATORY CONTROL SAMPLE: 243023

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Sulfate mg/L 20 20.3 101 90-110

MATRIX SPIKE SAMPLE: 243025

2039594001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 107 105 Sulfate 10 -20 75-125 M1 mg/L

SAMPLE DUPLICATE: 243024

Date: 07/20/2016 10:49 AM

2039594001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 107 Sulfate mg/L 107 0 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Fibers Project
Pace Project No.: 2039549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

Date: 07/20/2016 10:49 AM

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fibers Project
Pace Project No.: 2039549

Date: 07/20/2016 10:49 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2039549001 2039549003	INF-(20160711) EFF-(20160711)	EPA 3010 EPA 3010	58846 58846	EPA 6010 EPA 6010	58908 58908
2039549001 2039549003	INF-(20160711) EFF-(20160711)	EPA 200.8 EPA 200.8	58896 58896	EPA 200.8 EPA 200.8	58902 58902
2039549001 2039549003	INF-(20160711) EFF-(20160711)	SM 2340C SM 2340C	59001 59001		
2039549001 2039549003	INF-(20160711) EFF-(20160711)	SM 4500-S-2 D SM 4500-S-2 D	58683 58683		
2039549001 2039549003	INF-(20160711) EFF-(20160711)	40CFR PART 432.2 40CFR PART 432.2	58835 58835		
2039549001 2039549003	INF-(20160711) EFF-(20160711)	EPA 300.0 EPA 300.0	58815 58815		
2039549001 2039549003	INF-(20160711) EFF-(20160711)	EPA 351.2 EPA 351.2	58966 58966	EPA 351.2 EPA 351.2	59057 59057
2039549001 2039549003	INF-(20160711) EFF-(20160711)	SM 4500-CN-C SM 4500-CN-C	59109 59109	SM 4500-CN-E SM 4500-CN-E	59152 59152
2039549001 2039549003	INF-(20160711) EFF-(20160711)	SM 4500-NO3 F SM 4500-NO3 F	58973 58973		
2039549001 2039549003	INF-(20160711) EFF-(20160711)	ASTM D516-90,02 ASTM D516-90,02	58857 58857		

OTHER CERCLA DRINKING WATER 1948321 ₽ GROUND WATER REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) Site Location STATE: NPDES MO#: 2039549 UST Pace Project Traft N. Stock @ gazelobs. On Accounts Fayable Arcadis The Chain-of-Custody is a LEGAL DOCUM Invoice Informatio. CHAIN-OF-CUSTODY / company Name: Section C uttention: Pace Quote Reference: Address: roject Name: Fibers Wyelt Invisely, which eassander, medand a mondis us con Jurchase Order No.: (000 19 11 - 0003 - 1402 A Mechania Howard 00 19 11 . 0003 CODY TO: COLSSANDER Required Project Information: Report To: Davie Project Number: Section B mail To: David. haward @arculis-us.com 410 North 44th St., Suite 1000 Company: Arcadis U.S., INC. Phoenix, AZ. 85008 Face Analytical www.pacelabs.com Requested Due Date/TAT: 100 - 797 - 4516 Section A Required Client Information:

	Section D Required Client Information	M	Matrix Codes MATRIX / CODE		(AlMr	8	COLLECTED	۵		:	, -	Prese	Preservatives	ر ر	N/A							1.07.4				
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F-ALL-Q-020rev.07, 15-May-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

/Pace Analytical		1000 Riverbend, Blvd., Sui St. Rose, LA 70087	ite F		Project #	20		
	☐ Pace Courier	☐ Hired Courier resent: [see	Fed X	· □ UF	PS □ DHL	□ USPS Custody	☐ Customer	□ Other Yes `□No
Therometer Used:	□ Therm Fi	sher IR 6	Type of Ice	: (v	Wet Blue None	Sam	nples on ice: [see	cocj
Cooler Te	mperature: [see C	OC] Ten	np should be a	above f	reezing to 6°C	Date and In contents:	itials of person exa 0 7-13	amining LL 78
Temp must be	measured from Ten	nperature blank when	present		Comments:			
Temperature	Blank Present"?		☐Yes ☐No	∆ wa	1			
Chain of Cust	tody Present:		ÌQYes □No	□n/a	2			
Chain of Cust	tody Complete:		Ò Yes □No	□n/a	3			
	tody Relinquished	:	Òyes □No	□N/A	4			
Sampler Nam	ne & Signature on	COC:	Yes □No	□n/a	5			
Samples Arriv	ved within Hold Ti	me:	No □No	□N/A	6			
Sufficient Vol	ume:		Ò(Yes □No	□n/a	7			
Correct Conta	ainers Used:		ŽQYes □No	□n/A	8			
Filtered vol. R	Rec. for Diss. tests	3	□Yes □No	∆ N/A	9			
Sample Labe	ls match COC:		∑ Yes □No	□N/A	10			
I	received within n and/or expiration		Yes □No	□n/A	11			
	needing chemica d (except VOA, co	al preservation have diform, & O&G).	Yes □No	□n/a	12			
	preservation che vith EPA recomme	cked found to be in endation.	Yes □No	□n/a		oreserative ac cord lot no.:	dded? □Yes □Ne HNO3 H2	SO4
Headspace in	ı VOA Vials (>6m	ım):	□Yes □No	<u> D</u> WA	14			·
Trip Blank Pre	esent:	<u> </u>	□Yes No		15	w		
Client Notific Person Conta Comments/ R		ND Low	Level	me	rcury con-	Date	e/Time: sevt with	Kit.
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